

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sin J. Lee Examiner #: 76060 Date: 3-14-02  
 Art Unit: 1752 Phone Number 305-0504 Serial Number: 09/734,625  
 Mail Box and Bldg/Room Location: 9B05 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Oxime ester photoinitiators

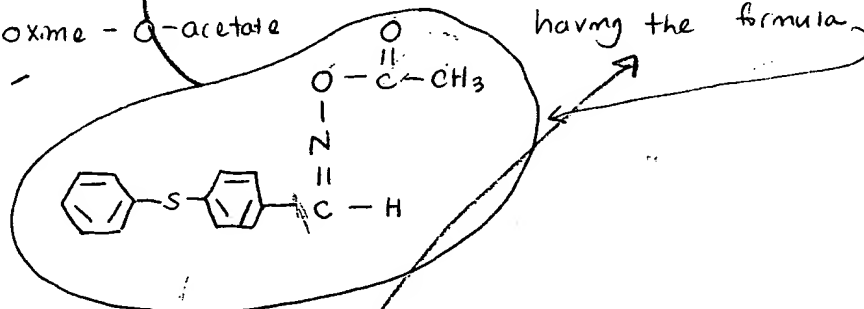
Inventors (please provide full names): Kunimoto, Kazuhiko; Oka, Hidetaka;  
Ohwa, Masaki; Tanabe, Junichi; Kura, Hisatoshi; Birbaum,  
 Earliest Priority Filing Date: 12-12-2000 Jean-Luc

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for the compound: 4-phenylsulfanyl-benzaldehyde

oxime - O-acetate

having the formula



The method of synthesizing this compound is explained in the attachment.

Thanks!

**BEST AVAILABLE COPY**

## STAFF USE ONLY

Searcher: John Calle Type of Search Vendors and cost where applicable  
 NA Sequence (#) 308-4139 STN \$ 301.94  
 Searcher Phone #: 308-4139 AA Sequence (#) Dialog  
 Searcher Location: 3/20 Structure (#) ✓ Questel/Orbit 100, 100  
 Date Searcher Picked Up: 3/21 Bibliographic Dr. Link  
 Date Completed: 3 hours Litigation Lexis/Nexis  
 Searcher Prep & Review Time: 1-2 hrs Fulltext Sequence Systems  
 Clerical Prep Time: Patent Family WWW/Internet  
 Online Time: Other (specify)

=> file reg

FILE 'REGISTRY' ENTERED AT 16:05:05 ON 20 MAR 2002

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 18 MAR 2002 HIGHEST RN 401788-64-5

DICTIONARY FILE UPDATES: 18 MAR 2002 HIGHEST RN 401788-64-5

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for  
details.

Calculated physical property data is now available. See HELP  
PROPERTIES

for more information. See STNote 27, Searching Properties in  
the CAS

Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the  
CAS Registry Numbers that were added to the H/Z/CA/CAplus files  
between

12/27/01 and 1/23/02. Use of the P indicator in online and SDI  
searches

during this period, either directly appended to a CAS Registry  
Number

or by qualifying an L-number with /P, may have yielded  
incomplete results.

As of 1/23/02, the situation has been resolved. Also, note that  
searches

conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files  
incorporating CAS Registry Numbers with the P indicator between  
12/27/01

and 1/23/02, are encouraged to re-run these strategies. Contact  
the

CAS Help Desk at 1-800-848-6533 in North America or  
1-614-447-3698,

worldwide, or send an e-mail to [help@cas.org](mailto:help@cas.org) for further  
assistance or to

receive a credit for any duplicate searches.

=> d his

(FILE 'HOME' ENTERED AT 14:48:49 ON 20 MAR 2002)

L1 FILE 'LREGISTRY' ENTERED AT 14:49:00 ON 20 MAR 2002  
STR

FILE 'STNGUIDE' ENTERED AT 14:51:39 ON 20 MAR 2002

L2 FILE 'REGISTRY' ENTERED AT 15:02:03 ON 20 MAR 2002  
STR  
L3 0 S L2 SAM  
L4 STR L2  
L5 0 S L4 SAM

FILE 'STNGUIDE' ENTERED AT 15:29:53 ON 20 MAR 2002

L6 FILE 'LREGISTRY' ENTERED AT 15:34:20 ON 20 MAR 2002  
STR L4  
L7 0 S L6 SAM

L8 FILE 'REGISTRY' ENTERED AT 15:40:54 ON 20 MAR 2002  
0 S L7

L9 FILE 'LREGISTRY' ENTERED AT 15:42:08 ON 20 MAR 2002  
STR L7

L10 FILE 'REGISTRY' ENTERED AT 15:44:48 ON 20 MAR 2002  
0 S L9  
L11 SCR 1312  
L12 0 S L9 AND L11 SAM  
L13 88 S L9 AND L11 FULL  
SAV L13 LEE625/A

L14 FILE 'HCAPLUS' ENTERED AT 15:57:04 ON 20 MAR 2002  
19 S L13

L15 FILE 'REGISTRY' ENTERED AT 15:57:30 ON 20 MAR 2002  
0 S L6 SSS SAM SUB=L13  
L16 23 S L6 SSS FULL SUB=L13  
SAV LEE625A/A L16

FILE 'CAOLD' ENTERED AT 16:01:56 ON 20 MAR 2002

Lee

09/734,625

03/20/2002

L17            0 S L16  
L18            0 S L13

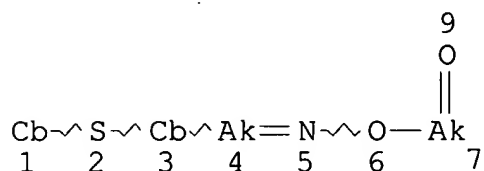
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L19            5 S L16  
L20            19 S L13  
L21            14 S L20 NOT L19

FILE 'REGISTRY' ENTERED AT 16:05:05 ON 20 MAR 2002

=> d L16 que stat

L6            STR



NODE ATTRIBUTES:

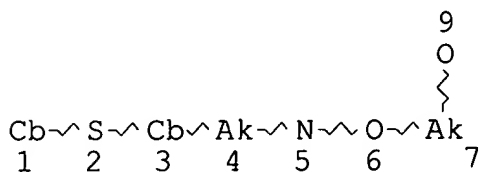
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GGCAT IS UNS AT 1  
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GGCAT IS SAT AT 7  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E6 C AT 1  
ECOUNT IS E6 C AT 3  
ECOUNT IS M1-X4 C AT 4

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L9            STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE  
L11 SCR 1312  
L13 88 SEA FILE=REGISTRY SSS FUL L9 AND L11  
L16 23 SEA FILE=REGISTRY SUB=L13 SSS FUL L6

100.0% PROCESSED 88 ITERATIONS 23  
ANSWERS  
SEARCH TIME: 00.00.01

=> file zcaplus  
FILE 'ZCAPLUS' ENTERED AT 16:06:03 ON 20 MAR 2002  
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FILE COVERS 1907 - 20 Mar 2002 VOL 136 ISS 12  
FILE LAST UPDATED: 18 Mar 2002 (20020318/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

=> d L19 1-5 ibib abs hitstr hitrn

L19 ANSWER 1 OF 5 ZCAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:752026 ZCAPLUS  
DOCUMENT NUMBER: 135:280493  
TITLE: Photopolymerization initiator of oxime  
ester for  
light-sensitive photoresist composition  
INVENTOR(S): Kunimoto, Kazuhiko; Oka, Hidetaka;  
Ohwa, Masaki;  
Tanabe, Junichi; Kura, Hisatoshi;  
Birbaum, Jean Luc  
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc.,  
Switz.  
SOURCE: Fr. Demande, 171 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE  |
|------------|------|----------|-----------------|-------|
| -----      | ---- | -----    | -----           | ----- |
| FR 2802528 | A1   | 20010622 | FR 2000-16306   |       |
| 20001214   |      |          |                 |       |

NL 1016815 A1 20010618 NL 2000-1016815  
20001206  
US 2001012596 A1 20010809 US 2000-734625  
20001212  
JP 2001233842 A2 20010828 JP 2000-377671  
20001212  
FI 2000002730 A 20010616 FI 2000-2730  
20001213  
DE 10061947 A1 20010621 DE 2000-10061947  
20001213  
CN 1299812 A 20010620 CN 2000-135980  
20001215  
BR 2000006379 A 20010724 BR 2000-6379  
20001215  
PRIORITY APPLN. INFO.: EP 1999-811160 A  
19991215  
EP 2000-810629 A

20000717

AB The invention relates to a photopolymn. initiator of oxime ester for a

photoresist compn., wherein the oxime is deriv. of Ar1-C=N-OR1(H) ( R1 = cycloalkanoyl, benzoyl, alkenoyl; Ar1 = aryl, aroyl). The photopolymn.

initiator provides the alkali-developable light-sensitive photoresist

compn., which shows the improved storageability, of the high resolu. and the good storageability.

IT **362624-48-4P 362624-60-0P 362624-62-2P**  
**362624-63-3P 362624-64-4P 362624-65-5P**  
**362624-66-6P 362624-67-7P 362624-68-8P**  
**362624-85-9P 362624-87-1P 362624-94-0P**  
**362625-00-1P 362625-01-2P**

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

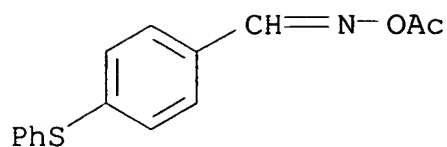
USES (Uses)

(light-sensitive color filter compn. contg. oxime esters used in

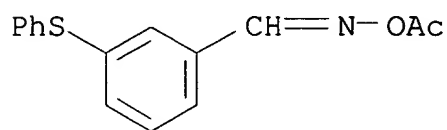
optical imaging devices)

RN 362624-48-4 ZCAPLUS

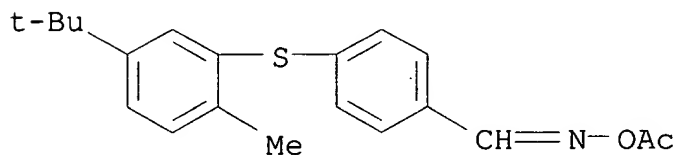
CN Benzaldehyde, 4-(phenylthio)-, O-acetyloxime (9CI) (CA INDEX NAME)



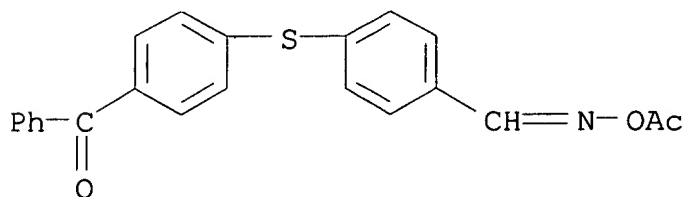
RN 362624-60-0 ZCAPLUS

CN Benzaldehyde, 3-(phenylthio)-, O-acetyloxime (9CI) (CA  
INDEX NAME)

RN 362624-62-2 ZCAPLUS

CN Benzaldehyde,  
4-[[5-(1,1-dimethylethyl)-2-methylphenyl]thio]-,  
O-acetyloxime (9CI) (CA INDEX NAME)

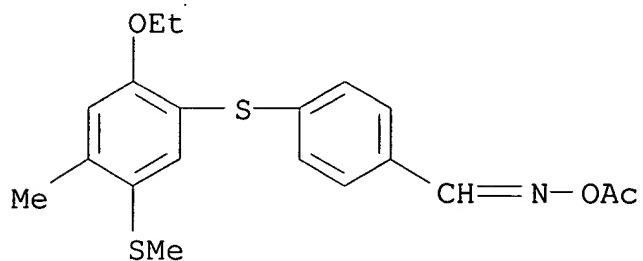
RN 362624-63-3 ZCAPLUS

CN Benzaldehyde, 4-[(4-benzoylphenyl)thio]-, 1-(O-acetyloxime)  
(9CI) (CA  
INDEX NAME)

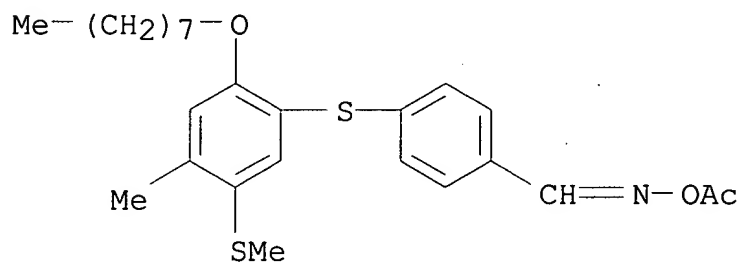
RN 362624-64-4 ZCAPLUS



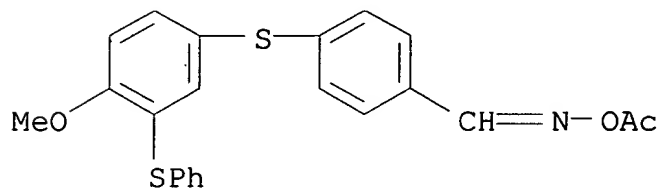
CN Benzaldehyde,  
4-[[2-ethoxy-4-methyl-5-(methylthio)phenyl]thio]-,  
O-acetyloxime (9CI) (CA INDEX NAME)



RN 362624-65-5 ZCAPLUS  
CN Benzaldehyde,  
4-[[4-methyl-5-(methylthio)-2-(octyloxy)phenyl]thio]-,  
O-acetyloxime (9CI) (CA INDEX NAME)



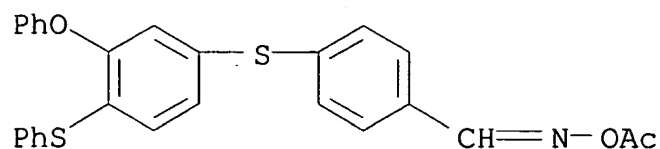
RN 362624-66-6 ZCAPLUS  
CN Benzaldehyde, 4-[[4-methoxy-3-(phenylthio)phenyl]thio]-,  
O-acetyloxime  
(9CI) (CA INDEX NAME)



RN 362624-67-7 ZCAPLUS

CN Benzaldehyde, 4-[[3-phenoxy-4-(phenylthio)phenyl]thio]-,  
O-acetyloxime

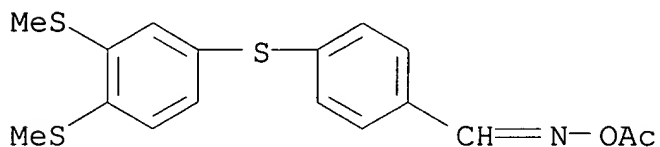
(9CI) (CA INDEX NAME)



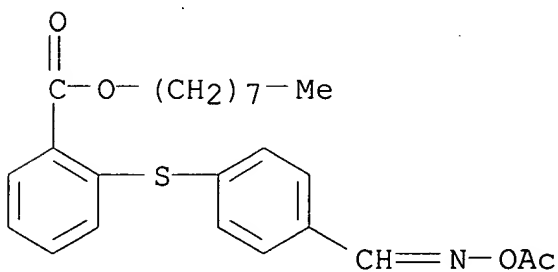
RN 362624-68-8 ZCAPLUS

CN Benzaldehyde, 4-[[3,4-bis(methylthio)phenyl]thio]-,  
O-acetyloxime (9CI)

(CA INDEX NAME)

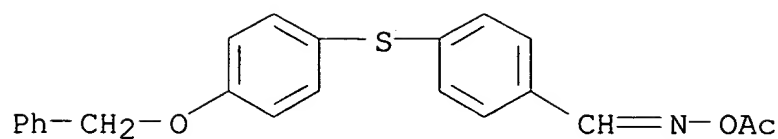


RN 362624-85-9 ZCAPLUS

CN Benzoic acid,  
2-[[4-[[[(acetyloxy)imino]methyl]phenyl]thio]-, octyl ester  
(9CI) (CA INDEX NAME)

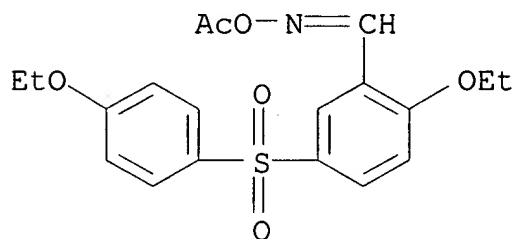
RN 362624-87-1 ZCAPLUS

CN Benzaldehyde, 4-[[4-(phenylmethoxy)phenyl]thio]-,  
O-acetyloxime (9CI) (CA  
INDEX NAME)



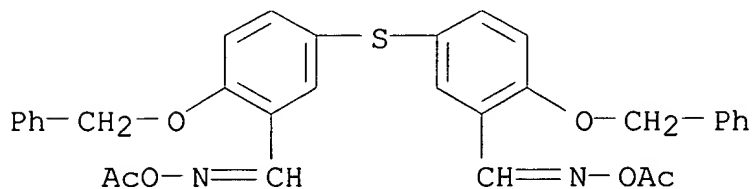
RN 362624-94-0 ZCAPLUS

CN Benzaldehyde, 2-ethoxy-5-[(4-ethoxyphenyl)sulfonyl]-,  
O-acetyloxime (9CI)  
(CA INDEX NAME)



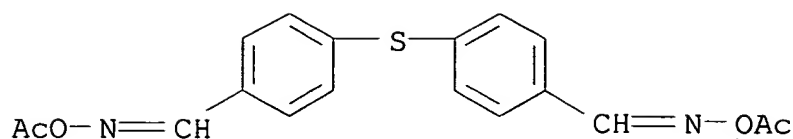
RN 362625-00-1 ZCAPLUS

CN Benzaldehyde, 3,3'-thiobis[6-(phenylmethoxy)-,  
1,1'-bis(O-acetyloxime)  
(9CI) (CA INDEX NAME)



RN 362625-01-2 ZCAPLUS

CN Benzaldehyde, 4,4'-thiobis-, 1,1'-bis(O-acetyloxime) (9CI)  
(CA INDEX NAME)



IT 362624-48-4P 362624-60-0P 362624-62-2P  
 362624-63-3P 362624-64-4P 362624-65-5P  
 362624-66-6P 362624-67-7P 362624-68-8P  
 362624-85-9P 362624-87-1P 362624-94-0P  
 362625-00-1P 362625-01-2P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

USES (Uses)

(light-sensitive color filter compn. contg. oxime esters used in optical imaging devices)

L19 ANSWER 2 OF 5 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:713730 ZCAPLUS

DOCUMENT NUMBER: 134:78558

TITLE: Use of ketoxime-esters

AUTHOR(S): Anon.

CORPORATE SOURCE: UK

SOURCE: Research Disclosure (2000), 437(Sept.), P1572-P1573

(No. 437035)

CODEN: RSDSBB; ISSN: 0374-4353

PUBLISHER: Kenneth Mason Publications Ltd.

DOCUMENT TYPE: Journal; Patent

LANGUAGE: English

PATENT INFORMATION:

| PATENT NO.                      | KIND | DATE     | APPLICATION NO. | DATE |
|---------------------------------|------|----------|-----------------|------|
| RD 437035                       |      | 20000910 |                 |      |
| PRIORITY APPLN. INFO.: 20000910 |      |          | RD 2000-437035  |      |

OTHER SOURCE(S): MARPAT 134:78558

AB Ketoxime-esters which generate radicals upon UV and/or visible radiation

can be used in specific imaging applications and in electronics. The

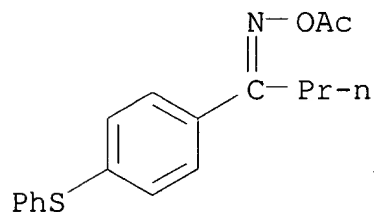
photogenerated radicals initiate radical polymn. of the  
photoimaging  
compns. The ketoxime-esters initiators can be used alone  
or in  
combination with sensitizers. The photosensitive compns.  
contg., these  
initiators can be used for (1) manuf. of spacers for liq.  
crystal  
displays; (2) producing lens arrays (microlens arrays) and  
prism sheets  
for solid-state image sensors; (3) producing dielec.  
insulating layers in  
liq. crystal displays.  
IT **253585-85-2 314745-31-8**  
RL: CAT (Catalyst use); TEM (Technical or engineered  
material use); USES  
(Uses)

(ketoxime-esters photogenerating radicals upon UV and/or  
visible  
radiation for use in photopolymg. compns. for imaging  
applications and  
in electronics)

RN 253585-85-2 ZCAPLUS

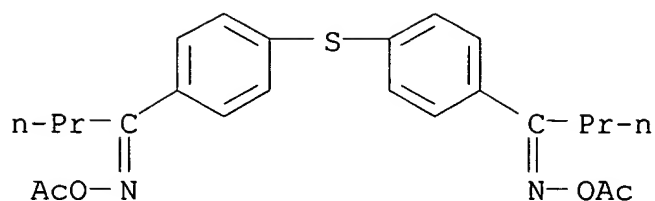
CN 1-Butanone, 1-[4-(phenylthio)phenyl]-, O-acetyloxime (9CI)

(CA INDEX  
NAME)



RN 314745-31-8 ZCAPLUS

CN 1-Butanone, 1,1'-(thiodi-4,1-phenylene)bis-,  
bis(O-acetyloxime) (9CI) (CA  
INDEX NAME)



IT 253585-85-2 314745-31-8

RL: CAT (Catalyst use); TEM (Technical or engineered material use); USES  
(Uses)

(ketoxime-esters photogenerating radicals upon UV and/or visible radiation for use in photopolymg. compns. for imaging applications and in electronics)

L19 ANSWER 3 OF 5 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:360 ZCAPLUS

DOCUMENT NUMBER: 132:85911

TITLE: New O-acyloxime photopolymerization initiator for

radical polymerizable compounds :  
INVENTOR(S): Matsumoto, Akira; Oka, Hidetaka; Ohwa, Masaki; Kura,

Hisatoshi; Birbaum, Jean-Luc;

Dietliker, Kurt

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: Ger. Offen., 46 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

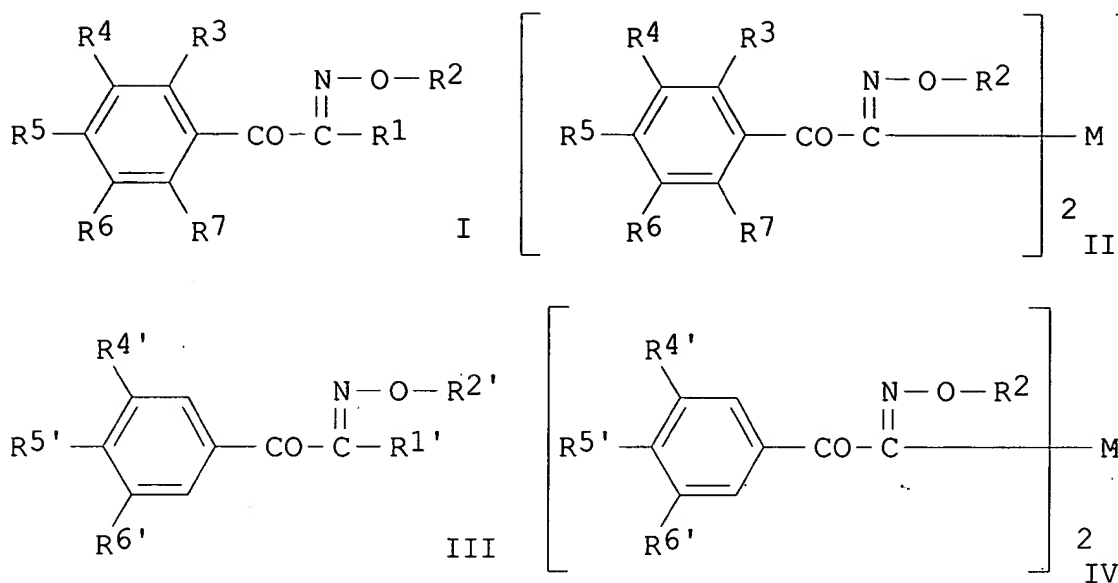
| PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE |
|-------------|------|----------|------------------|------|
| DE 19928742 | A1   | 19991230 | DE 1999-19928742 |      |
| 19990623    |      |          |                  |      |
| NL 1012222  | A1   | 20000104 | NL 1999-1012222  |      |
| 19990603    |      |          |                  |      |

Lee

09/734,625

03/20/2002

|                        |    |                  |                  |
|------------------------|----|------------------|------------------|
| NL 1012222             | C2 | 20000209         |                  |
| GB 2339571             | A1 | 20000202         | GB 1999-13756    |
| 19990615               |    |                  |                  |
| FI 9901407             | A  | 19991227         | FI 1999-1407     |
| 19990621               |    |                  |                  |
| BE 1012721             | A5 | 20010206         | BE 1999-431      |
| 19990621               |    |                  |                  |
| SE 9902078             | A  | 19991227         | SE 1999-2078     |
| 19990622               |    |                  |                  |
| JP 2000080068          | A2 | 20000321         | JP 1999-174866   |
| 19990622               |    |                  |                  |
| AU 9935844             | A1 | 20000113         | AU 1999-35844    |
| 19990623               |    |                  |                  |
| DK 9900904             | A  | 19991227         | DK 1999-904      |
| 19990624               |    |                  |                  |
| FR 2781794             | A1 | 20000204         | FR 1999-8070     |
| 19990624               |    |                  |                  |
| CN 1241562             | A  | 20000119         | CN 1999-108598   |
| 19990625               |    |                  |                  |
| KR 2000006480          | A  | 20000125         | KR 1999-24286    |
| 19990625               |    |                  |                  |
| BR 9903285             | A  | 20000418         | BR 1999-3285     |
| 19990628               |    |                  |                  |
| PRIORITY APPLN. INFO.: |    |                  | EP 1998-810595 A |
| 19980626               |    |                  |                  |
| OTHER SOURCE(S):       |    | MARPAT 132:85911 |                  |
| GI                     |    |                  |                  |



AB The oxime ester compd. is represented by general formulas I (R1 = C1-6-alkyl, Ph, halo, OR8, SR9, NR10R11, etc.; R2 = C2-12-alkanoyl, etc.; R3-7 = H, halo, C1-12-alkyl, cyclopentyl, cyclohexyl, etc.; R8 = H, C1-12-alkyl, etc.; R9 = H, C1-12-alkyl, C3-12-alkenyl, etc.; R10, R11 = H, C1-12-alkyl, C2-4-hydroxyalkyl, etc.), II (R2 = C2-12-alkanoyl, etc.; R3-7 = H, halo, C1-12-alkyl, cyclopentyl, cyclohexyl, etc.; M = C1-12-alkylene, cyclohexylene, phenylene, etc.), III (R1' = C2-12-alkoxycarbonyl, phenoxycarbonyl, etc.; R2 = R2 = C2-12-alkanoyl, etc.; R4', R5', R6' = H, halo, C1-12-alkyl, cyclopentyl, etc.) and IV (R2 = C2-12-alkanoyl, etc.; R4', R5', R6' = H, halo, C1-12-alkyl, cyclopentyl, etc.; M = C1-12-alkylene, cyclohexylene, phenylene, etc.). The compd., showing improved thermal stability and light stability, is suitable as the photopolymn. initiator.



IT 253585-85-2P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

USES (Uses)

(prepn. of new O-acyloxime photopolymn. initiator for radical

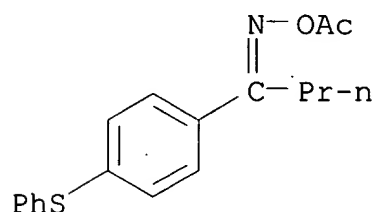
polymerizable compds.)

RN 253585-85-2 ZCAPLUS

CN 1-Butanone, 1-[4-(phenylthio)phenyl]-, O-acetyloxime (9CI)

(CA INDEX

NAME)



IT 253585-85-2P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

USES (Uses)

(prepn. of new O-acyloxime photopolymn. initiator for radical

polymerizable compds.)

L19 ANSWER 4 OF 5 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:108631 ZCAPLUS

DOCUMENT NUMBER: 124:288419

TITLE: Oximes: a new class of

methoxytetrahydropyranyl

inhibitors of leukotriene biosynthesis

with high in

vitro and in vivo potency

AUTHOR(S):

Ple, Patrick A.; Bird, T. Geoffrey C.

CORPORATE SOURCE:

Zeneca Pharma, Centre Recherches,

Reims, 51064, Fr.

SOURCE:

Bioorg. Med. Chem. Lett. (1996), 6(2),

127-32

CODEN: BMCLE8; ISSN: 0960-894X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Work aimed at further improving the in vivo activity of methoxytetrahydropyranyl inhibitors of leukotriene biosynthesis has led to the discovery of a series of oximes, members of which are more potent in vivo than ZD2138.

IT **175437-35-1 175437-36-2**

RL: BAC (Biological activity or effector, except adverse);

PRP

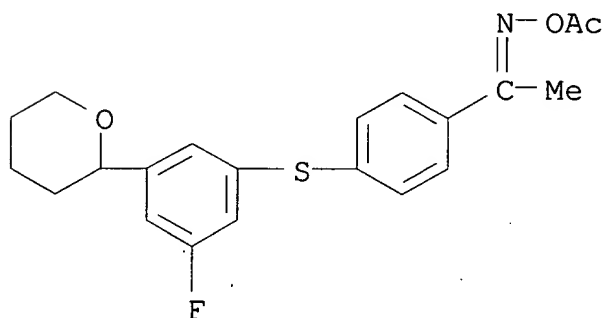
(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(high in vitro and in vivo potency methoxytetrahydropyranyl oxime inhibitors of leukotriene biosynthesis)

RN 175437-35-1 ZCAPLUS

CN Ethanone,

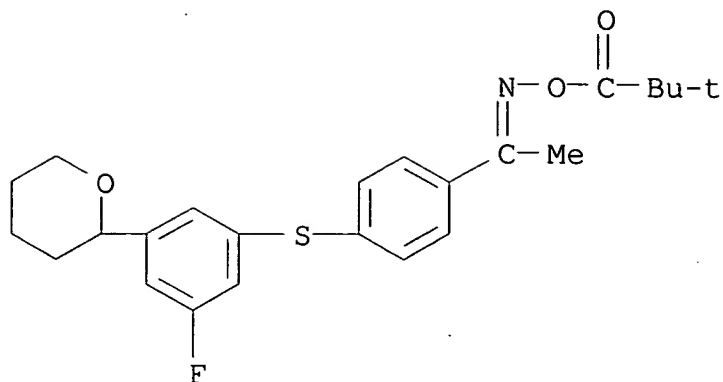
1-[4-[[3-fluoro-5-(tetrahydro-2H-pyran-2-yl)phenyl]thio]phenyl]-, O-acetyloxime (9CI) (CA INDEX NAME)



RN 175437-36-2 ZCAPLUS

CN Ethanone,

1-[4-[[3-fluoro-5-(tetrahydro-2H-pyran-2-yl)phenyl]thio]phenyl]-, O-(2,2-dimethyl-1-oxopropyl)oxime (9CI) (CA INDEX NAME)



IT 175437-35-1 175437-36-2

RL: BAC (Biological activity or effector, except adverse);

PRP

(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(high in vitro and in vivo potency  
methoxytetrahydropyranyl oxime  
inhibitors of leukotriene biosynthesis)

L19 ANSWER 5 OF 5 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:70 ZCAPLUS

DOCUMENT NUMBER: 122:187392

TITLE: Preparation of

[heterocyclarylthio]aryl ketoximes

and analogs as 5-lipoxygenase inhibitors

INVENTOR(S): Bird, Thomas Geoffrey Colerick; Ple,  
Patrick

PATENT ASSIGNEE(S): Zeneca Ltd., UK; Zeneca-Pharma

SOURCE: Eur. Pat. Appl., 85 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|------|
| EP 555068  | A1   | 19930811 | EP 1993-300782  |      |
| 19930203   |      |          |                 |      |
| EP 555068  | B1   | 19960410 |                 |      |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU,  
MC, NL, PT, SE

|                        |    |          |                 |
|------------------------|----|----------|-----------------|
| ZA 9300504             | A  | 19930809 | ZA 1993-504     |
| 19930122               |    |          |                 |
| AU 9331972             | A1 | 19930812 | AU 1993-31972   |
| 19930122               |    |          |                 |
| AU 658964              | B2 | 19950504 |                 |
| HU 63840               | A2 | 19931028 | HU 1993-272     |
| 19930203               |    |          |                 |
| AT 136546              | E  | 19960415 | AT 1993-300782  |
| 19930203               |    |          |                 |
| ES 2086878             | T3 | 19960701 | ES 1993-300782  |
| 19930203               |    |          |                 |
| CA 2088864             | AA | 19930808 | CA 1993-2088864 |
| 19930205               |    |          |                 |
| NO 9300411             | A  | 19930809 | NO 1993-411     |
| 19930205               |    |          |                 |
| JP 05286957            | A2 | 19931102 | JP 1993-18574   |
| 19930205               |    |          |                 |
| US 5332757             | A  | 19940726 | US 1993-14564   |
| 19930208               |    |          |                 |
| US 5482966             | A  | 19960109 | US 1994-240464  |
| 19940613               |    |          |                 |
| PRIORITY APPLN. INFO.: |    |          | EP 1992-400318  |
| 19920207               |    |          |                 |
|                        |    |          | EP 1992-402764  |
| 19921009               |    |          |                 |
|                        |    |          | US 1993-14564   |

19930208

OTHER SOURCE(S): MARPAT 122:187392

AB R5ON:CR4Z1AXZ2C(OR1)R2R3 [A = bond, alkylene; R1 =  
alk(en)yl; R2R3 = atoms  
to complete a heterocyclic ring; R4 = H, alkyl, Ph, etc.;

R5 = H,  
alk(en)yl, alkanoyl, CONH2, etc.; X = O, SOO-2; Z1 =  
phenylene,

heteroarylene, etc.; Z2 = phenylene, pyridinediyl,  
thiophenediyl, etc.]

were prepd. Thus,

4-(2-methyl-1,3-dioxolan-2-yl)benzenethiol (prepn. in 4  
steps from 4-BrC6H4COMe given) was condensed with  
(2S,4R)-4-(3,5-

difluorophenyl)-4-methoxy-2-methyltetrahydropyran and the  
product

converted in 2 steps to title compd. (2S,4R)-I which had  
ID50 of

.apprx.0.05mg/kg orally against zymosan-induced LTB4 prodn.  
in rat

subcutaneous air pouch.

IT **158346-75-9P 158346-76-0P 161385-59-7P**  
**161385-60-0P**

RL: BAC (Biological activity or effector, except adverse);  
SPN (Synthetic  
preparation); THU (Therapeutic use); BIOL (Biological  
study); PREP

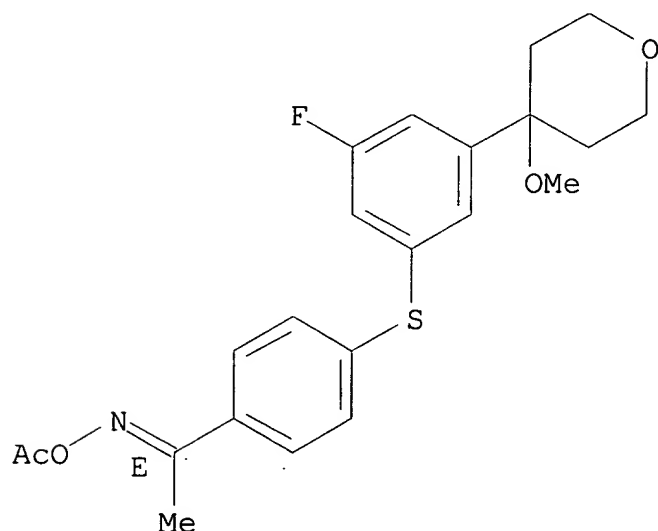
(Preparation); USES (Uses)  
(prepn. of [(heterocyclyl)arylthio]aryl ketoximes and  
analogs as  
5-lipoxygenase inhibitors)

RN 158346-75-9 ZCAPLUS

CN Ethanone,

1-[4-[[3-fluoro-5-(tetrahydro-4-methoxy-2H-pyran-4-  
yl)phenyl]thio]phenyl]-, O-acetyloxime, (E)- (9CI) (CA  
INDEX NAME)

Double bond geometry as shown.



RN 158346-76-0 ZCAPLUS

CN Ethanone,

1-[4-[[3-fluoro-5-(tetrahydro-4-methoxy-2H-pyran-4-  
yl)phenyl]thio]phenyl]-, O-(2,2-dimethyl-1-oxopropyl)oxime,  
(E)- (9CI)  
(CA INDEX NAME)

CC(=NOC(=O)OC(C)(C)C)C1=CC=C(SC2=CC=C(C=C2)C3=CC=C(C=C3)C(F)=CC3=CC=CC=C3C3(COC)CCOCC3)C=C1

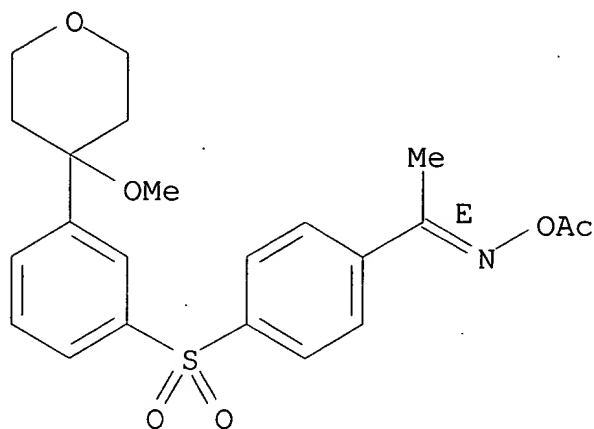
1-[4-[[3-(tetrahydro-4-methoxy-2H-pyran-4-yl)phenyl]thio]phenyl]-  
O-acetyloxime, (E)- (9CI) (CA INDEX NAME)

CC(=NOC)C1=CC=C(SC1Cc2ccccc2C3CCOCC3OC)c4ccccc4

RN 161385-60-0 ZCAPLUS

CN Ethanone, 1-[4-[[3-(tetrahydro-4-methoxy-2H-pyran-4-yl)phenyl]sulfonyl]phenyl]-, O-acetyloxime, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 158346-75-9P 158346-76-0P 161385-59-7P  
161385-60-0P

RL: BAC (Biological activity or effector, except adverse);  
SPN (Synthetic  
preparation); THU (Therapeutic use); BIOL (Biological  
study); PREP  
(Preparation); USES (Uses)  
(prepn. of [(heterocycl)arylthio]aryl ketoximes and  
analogs as  
5-lipoxygenase inhibitors)

=> d L21 1-14 ibib abs hitstr hitrn

L21 ANSWER 1 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:788939 ZCAPLUS

DOCUMENT NUMBER: 135:351634

TITLE: Photocurable thermosetting resin  
composition and

printed circuit board having solder  
resist or electric

insulator film made of the composition

INVENTOR(S): Onodera, Masaya; Matsumoto, Shigeru;  
Yokoyama, Hiroshi  
PATENT ASSIGNEE(S): Taiyo Ink Mfg Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.       | KIND   | DATE       | APPLICATION NO. | DATE  |
|------------------|--------|------------|-----------------|-------|
| -----            | ----   | -----      | -----           | ----- |
| JP 2001302871    | A2     | 20011031   | JP 2000-124589  |       |
| 20000425         |        |            |                 |       |
| OTHER SOURCE(S): | MARPAT | 135:351634 |                 |       |
| GI               |        |            |                 |       |

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA  
OFFLINE PRINT \*

AB The compn. contains a photosensitive prepolymer involving  
.gtoreq.2  
unsatd. double bonds and .gtoreq.1 carboxyl group,  
.gtoreq.1 photopolymn.  
initiator selected from arom. oxime compds. I, II, III, and  
IV (Rs are  
defined for satisfying existence of Ph or benzoyl linked to  
oxime and  
alkoxy, aryloxyl, alkylthio, arylthio, alkylamino, or  
arylamino; M =  
direct bond, alkylene, O, S, N-contg. divalent group), a  
reactive diluent,  
and a compd. substituted with .gtoreq.2 epoxy groups. The  
compn. shows  
deep photopolymn., i.e., large depth of focus, and gives a  
pattern with  
high resoln. The printed circuit board has a solder resist  
film made of  
the above compn. as a permanent protective film on an elec.  
circuit  
pattern showing good resistance to heat, chem., moisture,  
and pressure



cooker test.

IT **370103-59-6**

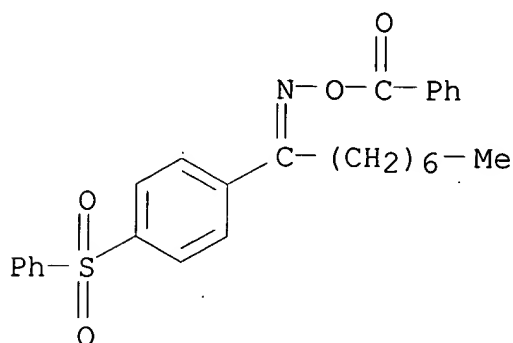
RL: CAT (Catalyst use); USES (Uses)

(photocurable thermosetting resin compn. contg. oxime photopolymn.

initiator for film in printed circuit board)

RN 370103-59-6 ZCAPLUS

CN 1-Octanone, 1-[4-(phenylsulfonyl)phenyl]-, O-benzoyloxime  
(9CI) (CA INDEX  
NAME)



IT **370103-59-6**

RL: CAT (Catalyst use); USES (Uses)

(photocurable thermosetting resin compn. contg. oxime photopolymn.

initiator for film in printed circuit board)

L21 ANSWER 2 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:707200 ZCAPLUS

DOCUMENT NUMBER: 135:257904

TITLE: Radiation-sensitive resin compositions  
for spacers of

INVENTOR(S): liquid crystal panels  
Ogasawara, Shoji; Nakano, Takanori;

Endo, Masayuki

PATENT ASSIGNEE(S): JSR Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

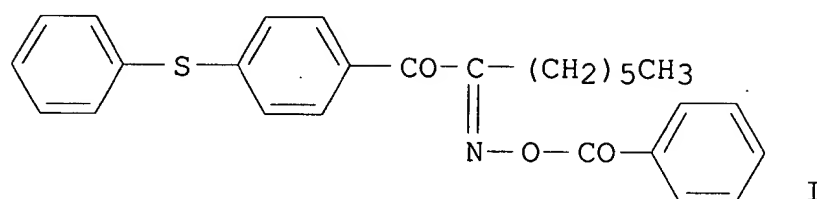
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|------|
| JP 2001261761 | A2   | 20010926 | JP 2000-79706   |      |
| 20000322      |      |          |                 |      |
| GI            |      |          |                 |      |



AB The patent relates to a resin compn. used as the spacer for the display

panel wherein the resin provides superior strength and heat resistance

while giving good reproducibility even with proximity exposure method.

The radiation-sensitive resin compn. comprises (A) copolymer of unsatd.

carboxylic acid and/or unsatd. carboxylic acid anhydride, epoxy

group-contg. unsatd. compd., and other vinyl monomer, (B) the polymers

derived from multifunctional monomers, and (C) a photopolymn. initiator

with the following formula (I).

IT **253585-83-0**

RL: CAT (Catalyst use); USES (Uses)

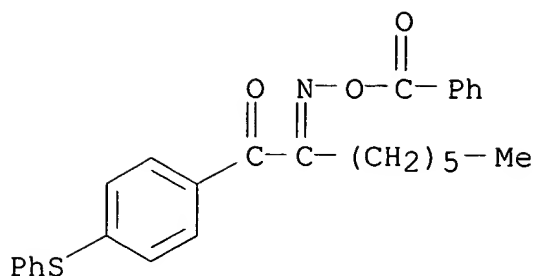
(photopolymn. initiator; radiation-sensitive resin compns. for spacers

of liq. crystal panels)

RN 253585-83-0 ZCAPLUS

CN 1,2-Octanedione, 1-[4-(phenylthio)phenyl]-, 2-(O-benzoyloxime) (9CI) (CA

INDEX NAME)

IT **253585-83-0**

RL: CAT (Catalyst use); USES (Uses)  
(photopolymn. initiator; radiation-sensitive resin  
comps. for spacers  
of liq. crystal panels)

L21 ANSWER 3 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:705080 ZCAPLUS

DOCUMENT NUMBER: 135:264655

TITLE: Radiation sensitive composition  
containing specific

for production

devices such as

camera

INVENTOR(S):

Kamii, Hideyuki

PATENT ASSIGNEE(S):

SOURCE:

photo radical polymerization initiator

of color filter in optical imaging

liquid crystal display, solid state

Watanabe, Takeshi; Yoshida, Koichiro;

JSR Ltd., Japan

Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

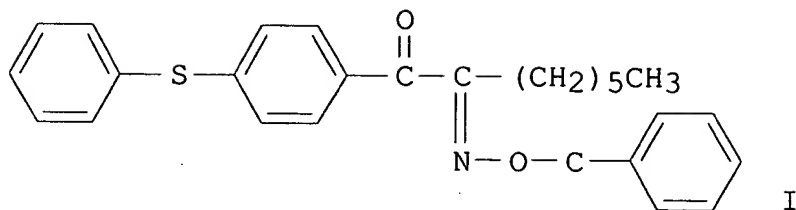
LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.       | KIND | DATE              | APPLICATION NO. | DATE |
|------------------|------|-------------------|-----------------|------|
| -----            | ---- | -----             | -----           |      |
| JP 2001264530    | A2   | 20010926          | JP 2000-79637   |      |
| 20000322         |      |                   |                 |      |
| OTHER SOURCE(S): |      | MARPAT 135:264655 |                 |      |
| GI               |      |                   |                 |      |



AB The title compn. contains a colorant, an alkali sol. resin, monomers

having multiple functional groups, and a photo radical polymn. initiator,

wherein the photo radical initiator contains a compd. chosen from specific

compd. groups contg. an imino group and an aryl group such as I. The

compn., which contains the aforementioned photo radical polymn. initiator,

generates the residual materials after development while contg. high

concn. of the pigment.

IT **253585-83-0**

RL: MOA (Modifier or additive use); USES (Uses)

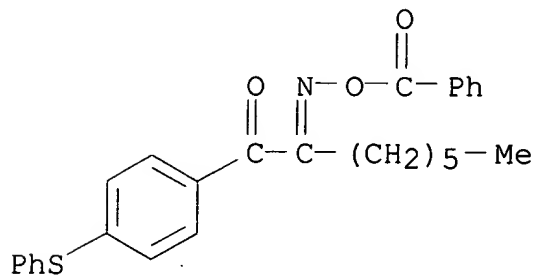
(photopolymn. initiator for manufg. color filters)

RN 253585-83-0 ZCAPLUS

CN 1,2-Octanedione, 1-[4-(phenylthio)phenyl]-,

2-(O-benzoyloxime) (9CI) (CA

INDEX NAME)



IT **253585-83-0**

RL: MOA (Modifier or additive use); USES (Uses)

(photopolymn. initiator for manufg. color filters)

L21 ANSWER 4 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:314401 ZCAPLUS

DOCUMENT NUMBER: 135:152605

TITLE: Thermal decomposition of tert-butyl  
o-(phenylsulfanyl)- and o-

(phenylsulfonyl)phenyliminoxyperacetates: The  
reactivity of thio-substituted iminyl  
radicals

AUTHOR(S): Leardini, Rino; McNab, Hamish; Minozzi,  
Matteo; Nanni,

Daniele

CORPORATE SOURCE: Dipartimento di Chimica Organica "A.  
Mangini",

Universita di Bologna, Bologna,

I-40136, Italy

SOURCE: Journal of the Chemical Society, Perkin  
Transactions 1

(2001), (9), 1072-1078

CODEN: JCSPCE; ISSN: 1472-7781

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Some o-(phenylsulfanyl)- and o-(phenylsulfonyl)-substituted  
phenyliminyl

radicals have been generated by thermal decompn. of  
suitable tert-Bu

iminoxyperacetates. The sulfanyl-substituted iminyls  
showed no tendency

to give either 1,7- or 1,6-ring closure onto the S-Ph ring.

They gave

instead 1,5-cyclization onto the sulfur atom with release  
of a Ph radical

and formation of benzoisothiazoles. This seems to be the  
first example of

SHi reaction of a nitrogen-centered radical at a sulfide  
moiety. On the

other hand, the sulfonyl-substituted iminyl underwent  
1,6-cyclization to a

small extent, furnishing a phenanthridine through an  
unprecedented

1,5-aryl radical migration from sulfur to nitrogen followed  
by loss of

sulfur dioxide and ring closure of an aryl radical.

IT 352427-04-4P 352427-05-5P 352427-06-6P

352427-07-7P 352427-08-8P 352427-09-9P

352427-10-2P 352427-11-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT  
(Reactant or reagent)

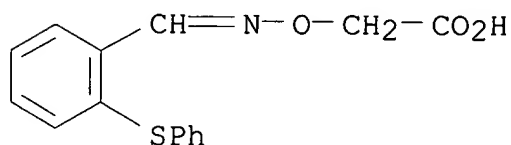
(reactivity of thio-substituted iminyl radicals in  
thermal decompn. of

tert-Bu (phenylsulfanyl)- and  
(phenylsulfonyl)phenyliminooxyperacetates)

RN 352427-04-4 ZCAPLUS

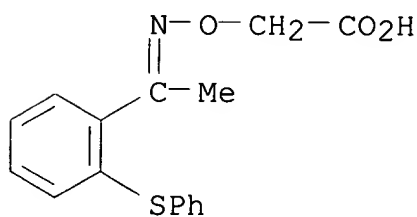
CN Acetic acid, [[[[2-(phenylthio)phenyl]methylene]amino]oxy]-  
(9CI) (CA

INDEX NAME)



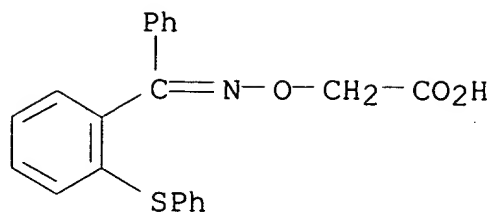
RN 352427-05-5 ZCAPLUS

CN Acetic acid,  
[[[1-[2-(phenylthio)phenyl]ethylidene]amino]oxy]- (9CI) (CA  
INDEX NAME)



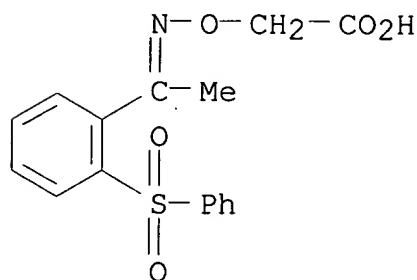
RN 352427-06-6 ZCAPLUS

CN Acetic acid,  
[[[phenyl[2-(phenylthio)phenyl]methylene]amino]oxy]- (9CI)  
(CA INDEX NAME)



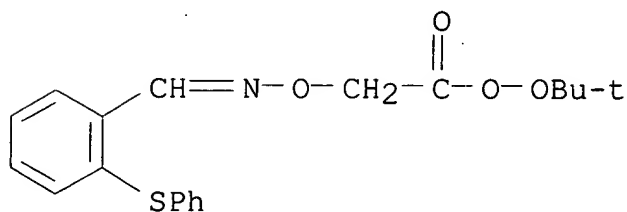
RN 352427-07-7 ZCAPLUS

CN Acetic acid,

[[[1-[2-(phenylsulfonyl)phenyl]ethylidene]amino]oxy]- (9CI)  
(CA INDEX NAME)

RN 352427-08-8 ZCAPLUS

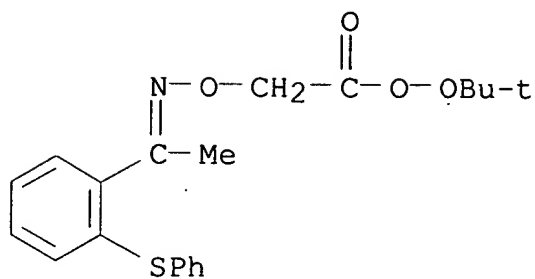
CN Ethaneperoxoic acid,

[[[2-(phenylthio)phenyl]methylene]amino]oxy]-,  
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

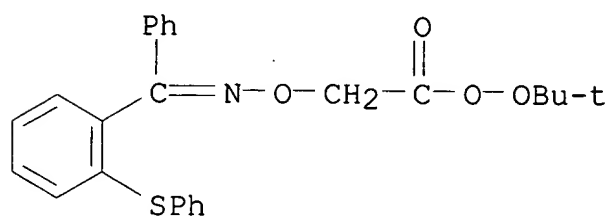
RN 352427-09-9 ZCAPLUS

CN Ethaneperoxoic acid,

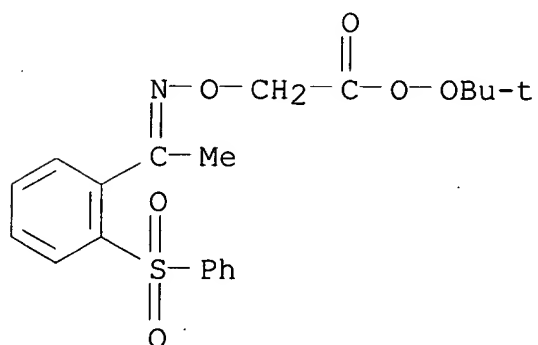
[[[1-[2-(phenylthio)phenyl]ethylidene]amino]oxy]-,  
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 352427-10-2 ZCAPLUS  
 CN Ethaneperoxoic acid,  
 [[[phenyl[2-(phenylthio)phenyl]methylene]amino]oxy]-,  
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 352427-11-3 ZCAPLUS  
 CN Ethaneperoxoic acid,  
 [[[1-[2-(phenylsulfonyl)phenyl]ethylidene]amino]oxy]-,  
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT 352427-04-4P 352427-05-5P 352427-06-6P  
 352427-07-7P 352427-08-8P 352427-09-9P  
 352427-10-2P 352427-11-3P



RL: RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT  
(Reactant or reagent)

(reactivity of thio-substituted iminyl radicals in  
thermal decompn. of

tert-Bu (phenylsulfanyl)- and  
(phenylsulfonyl)phenyliminoxyperacetates)

REFERENCE COUNT: 94 THERE ARE 94 CITED REFERENCES  
AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE  
IN THE RE FORMAT

L21 ANSWER 5 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:757318 ZCAPLUS

DOCUMENT NUMBER: 134:56389

TITLE: Conformational studies by dynamic NMR,  
77:

stereomutation of the enantiomers of  
hindered

O-substituted oximes  
AUTHOR(S): Leardini, Rino; Lunazzi, Lodovico;  
Mazzanti, Andrea;

McNab, Hamish; Nanni, Daniele  
CORPORATE SOURCE: Department of Organic Chemistry  
"A.Mangini",  
University of Bologna, Bologna, 40136,  
Italy

SOURCE: European Journal of Organic Chemistry  
(2000), (20),  
3439-3446

CODEN: EJOCFK; ISSN: 1434-193X

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

AB As anticipated by mol. mechanics calcns., the (E) and (Z)  
isomers of

diaryl ketone oximes contg. a bulky substituent (PhS or  
Ph2N) in the ortho

position of the Ph ring, display different conformational  
preferences.

Whereas the (E) isomers exhibit a plane of symmetry at any  
accessible

temp., the (Z) isomers exist as a pair of stereolabile  
enantiomers that

were detected by low-temp. NMR spectroscopy in a chiral  
environment. In a

no. of O-substituted oximes, the enantiomerization barriers of the (Z)

isomers were detd. by monitoring the line shape of the NMR signals of

diastereotopic methylene hydrogen atoms as a function of temp. The four

stereoisomers, generated by the combination of the conformational axial

chirality with the configurationally stable chirality of a stereogenic

center, have been all detected in a specifically substituted oxime and

monitored in an appropriate chiral environment. The NMR results in soln.

were confirmed by x-ray diffraction measurements in the solid state.

IT 313513-84-7P 313513-86-9P 313513-88-1P  
313513-90-5P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT

(Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC

(Process); RACT (Reactant or reagent)

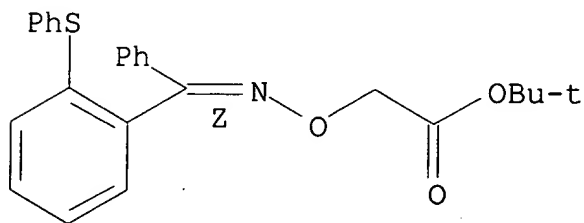
(NMR study of stereomutation of enantiomers of hindered O-substituted oximes)

RN 313513-84-7 ZCAPLUS

CN Acetic acid,

[[ (Z)-[phenyl[2-(phenylthio)phenyl]methylene]amino]oxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



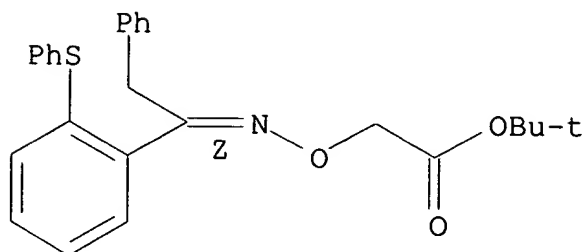
RN 313513-86-9 ZCAPLUS

CN Acetic acid,

[[ (Z)-[2-phenyl-1-[2-(phenylthio)phenyl]ethylidene]amino]oxy]-

, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

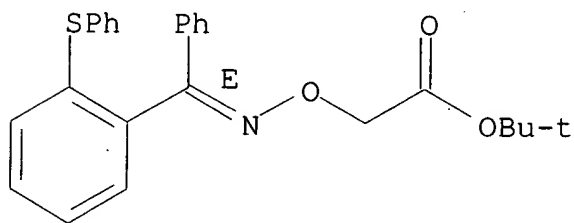


RN 313513-88-1 ZCAPLUS

CN Acetic acid,

[[ (E) - [phenyl [2 - (phenylthio) phenyl] methylene] amino] oxy] - ,  
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

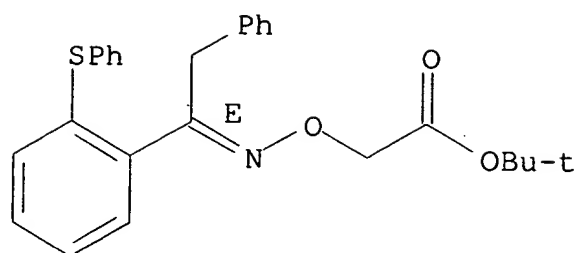


RN 313513-90-5 ZCAPLUS

CN Acetic acid,

[[ (E) - [2 - phenyl - 1 - [2 - (phenylthio) phenyl] ethylidene] amino] oxy] -  
, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 313513-84-7P 313513-86-9P 313513-88-1P  
313513-90-5P

RL: PEP (Physical, engineering or chemical process); PRP  
(Properties); RCT

(Reactant); SPN (Synthetic preparation); PREP  
(Preparation); PROC

(Process); RACT (Reactant or reagent)  
(NMR study of stereomutation of enantiomers of hindered  
O-substituted  
oximes)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES  
AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L21 ANSWER 6 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:451037 ZCAPLUS

DOCUMENT NUMBER: 131:87823

TITLE: Preparation of phenylalkylcarboxylic  
acid derivatives

as insulin resistance improvers  
INVENTOR(S): Yanagisawa, Hiroaki; Takamura, Minoru;  
Fujita,

Takeshi; Fujiwara, Toshihiko

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 158 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

JP 11193272

A2 19990721

JP 1998-277371

19980930

PRIORITY APPLN. INFO.:

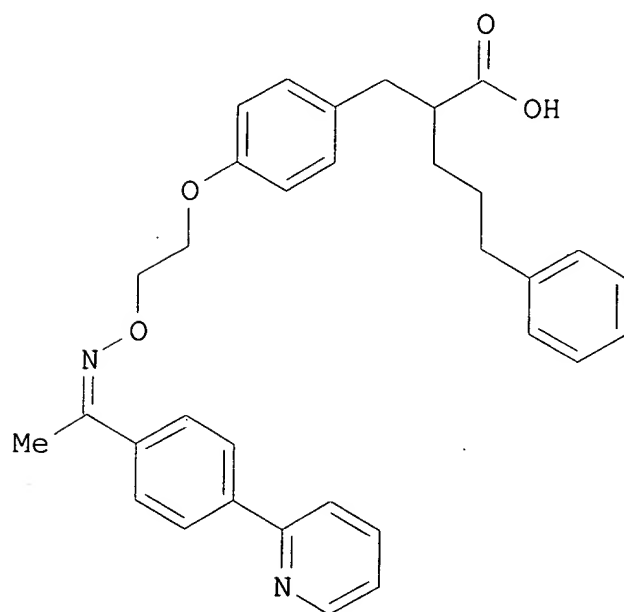
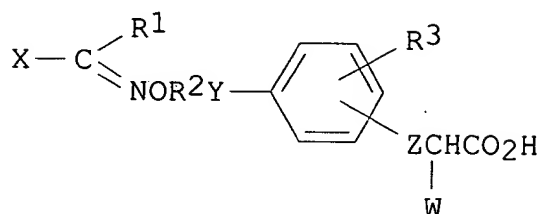
JP 1997-268987

19971001

OTHER SOURCE(S):

MARPAT 131:87823

GI



AB The title compds. [I; R1 = H, linear or branched alkyl C1-6 alkyl; R2 =

linear or branched C2-6 alkylene; R3 = H, linear or branched C1-6 alkyl,

C1-4 alkoxy, or alkylthio, halo, NO2, di(linear or branched alkyl)amino,

(un)substituted aryl or aralkyl; Z = single bond, linear or branched alkyl

C1-6 alkylene; W = linear or branched C1-6 alkyl, HO, linear or branched

C1-4 alkoxy or alkylthio, NH<sub>2</sub>, mono- or di(linear or branched alkyl)amino,

N-(linear or branched C1-4 alkyl)-N-(optionally substituted C6-10

aryl)amino, (un)substituted C6-10 aryl, aryloxy, arylamino, etc.; X =

(un)substituted C6-10 aryl, (un)substituted 5-10 membered mono- or

bicyclic heterocyclyl contg. 1-4 heteroatom(s) selected from O, N, and S;

Y = O, S, NR<sub>4</sub>; R<sub>4</sub> = H, linear or branched C1-6 alkyl or C1-8 aliph. acyl,

arom. acyl] or pharmacol. acceptable salts or esters thereof are prepd.

and specific I are claimed. Also claimed are insulin resistance

improvers, immunomodulators, aldose reductase inhibitors, 5-lipoxygenase

inhibitors, lipid peroxide-formation inhibitors, PPAR (peroxisome

proliferator-activated receptor) activators, remedies for osteoporosis,

and remedies or preventives for diabetes, impaired glucose tolerance,

insulin resistant non-impaired glucose tolerance, hypertension, diabetes

complications, arteriosclerosis, gestational diabetes mellitus, polycystic

ovary syndrome, cardiovascular diseases, atherosclerosis, cell damages

induced by ischemic heart diseases, arthritis, allergies, asthma, cancers,

autoimmune diseases, pancreatitis, and cataract contg. I pharmacol.

acceptable salts or esters thereof as the active ingredients. Thus,

4'-(2-pyridyl)acetophenone oxime

O-2-(methanesulfonyloxy)ethyl ether, Et

2-(4-hydroxybenzyl)-5-phenylvalerate, and NaH were stirred in DMF and PhMe

at room temp. for 30 min, followed by sapon. with KOH in ethanol and

acidification with 2 N aq. HCl to give the title compd., pyridine deriv.

(II). A feed contg. II at 10 mg/kg/day was fed to hypertensive mice for 3 days, lowering blood pressure by 47.0% compared to control.

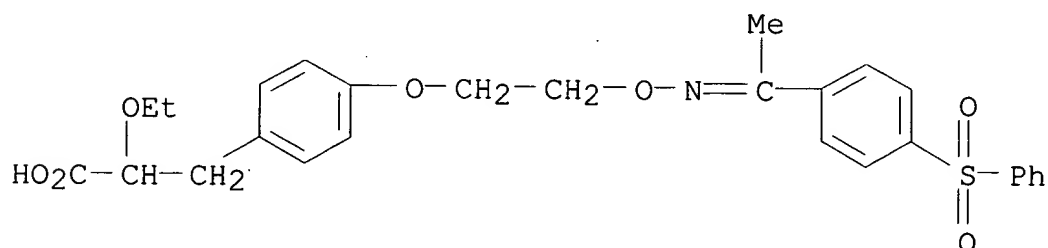
IT **197299-20-0P**

RL: BAC (Biological activity or effector, except adverse);  
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of phenylalkylcarboxylic acid derivs. as insulin resistance improvers and remedies or preventives for diseases)

RN 197299-20-0 ZCAPLUS

CN Benzenepropanoic acid, .alpha.-ethoxy-4-[2-[[[1-[4-(phenylsulfonyl)phenyl]ethylidene]amino]oxy]ethoxy]- (9CI)

(CA INDEX NAME)



IT **197299-20-0P**

RL: BAC (Biological activity or effector, except adverse);  
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of phenylalkylcarboxylic acid derivs. as insulin resistance improvers and remedies or preventives for diseases)

L21 ANSWER 7 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:806628 ZCAPLUS

DOCUMENT NUMBER: 130:52147

TITLE: O-acyl oximes and acylhydrazones as insecticides and

acaricides

INVENTOR(S): Maienfisch, Peter; Gogh, Tibor; Boger, Manfred;

PATENT ASSIGNEE(S): Pitterna, Thomas  
 Novartis A.-G., Switz.; Norvartis  
 Erfindungen  
 SOURCE: Verwaltungsgesellschaft m.b.H.  
 PCT Int. Appl., 90 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------|
| WO 9855448  | A2   | 19981210 | WO 1998-EP3214  |      |
| 19980529  |      |          |                 |      |
| WO 9855448  | A3   | 19990506 |                 |      |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |      |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  |      |          |                 |      |
| AU 9882116  | A1   | 19981221 | AU 1998-82116   |      |
| 19980529  |      |          |                 |      |
| AU 734489   | B2   | 20010614 |                 |      |
| EP 986534   | A2   | 20000322 | EP 1998-932100  |      |
| 19980529  |      |          |                 |      |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI   |      |          |                 |      |
| BR 9809912  | A    | 20001003 | BR 1998-9912    |      |
| 19980529  |      |          |                 |      |
| JP 2002502405   | T2   | 20020122 | JP 1999-501450  |      |
| 19980529  |      |          |                 |      |
| PRIORITY APPLN. INFO.: CH 1997-1327   |      |          | A               |      |
| 19970603  |      |          |                 |      |



WO 1998-EP3214 W

19980529

OTHER SOURCE(S): MARPAT 130:52147

AB F2C:CR3CH2(CH2CH2)mCO(OCH2CO)nXN:CR1R2 [R1, R2 = H,  
(un)substituted alkyl,  
cycloalkyl, alkenyl, alkynyl; R3 = H, F, Me; m = 0-5; n =  
0, 1; X = O,  
NR4; R4 = H, (un)substituted alkyl, benzyl] were prepd. for  
use as

insecticides and acaricides. Thus, acetone oxime was  
treated with

F2C:CH(CH2)3CO2H to give F2C:CH(CH2)3CON:CMe2 which was  
active against

*Heliothis virescens*, *Nilaparvata lugens*, *diabrotica*  
*balteata*, *Tetranychus*  
*urticae*, *spodoptera litoralis*, *Plutella xylostella*, and  
*Aphis craccivora*  
at 400 ppm.

IT **217092-00-7P**

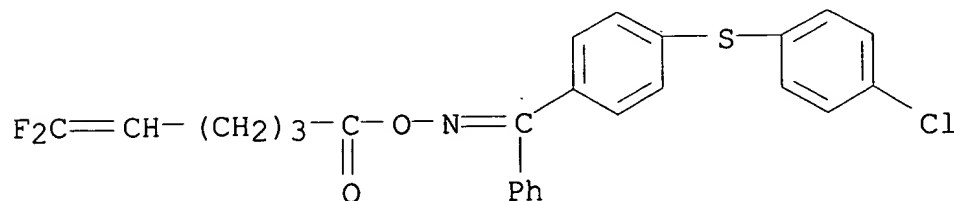
RL: AGR (Agricultural use); BAC (Biological activity or  
effector, except

adverse); SPN (Synthetic preparation); BIOL (Biological  
study); PREP

(Preparation); USES (Uses)  
(prepn. of difluorohexenoyloximes and -hydrazones as  
insecticides and  
acaricides)

RN 217092-00-7 ZCAPLUS

CN Methanone, [4-[(4-chlorophenyl)thio]phenyl]phenyl-,  
O-(6,6-difluoro-1-oxo-  
5-hexenyl)oxime (9CI) (CA INDEX NAME)

IT **217092-00-7P**

RL: AGR (Agricultural use); BAC (Biological activity or  
effector, except

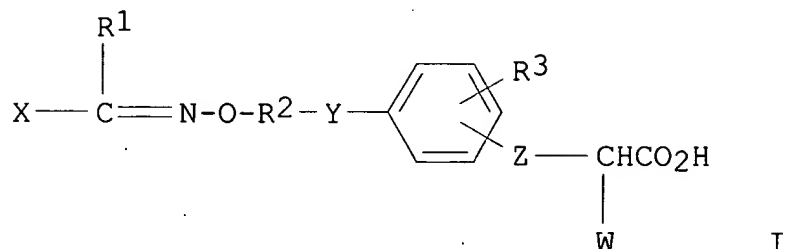
adverse); SPN (Synthetic preparation); BIOL (Biological  
study); PREP

(Preparation); USES (Uses)  
(prepn. of difluorohexenoyloximes and -hydrazones as  
insecticides and  
acaricides)

L21 ANSWER 8 OF 14 ZCAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1997:684384 ZCAPLUS  
DOCUMENT NUMBER: 127:307307  
TITLE: Preparation of phenylalkylcarboxylic  
acid derivatives  
lowering blood sugar level  
INVENTOR(S): Yanagisawa, Hiroaki; Takamura, Makoto;  
Fujita,  
Takashi; Fujiwara, Toshihiko  
PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan; Yanagisawa,  
Hiroaki;  
Takamura, Makoto; Fujita, Takashi;  
Fujiwara, Toshihiko  
SOURCE: PCT Int. Appl., 339 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE  |
|--|------|----------|-----------------|-------|
| -----  | ---- | -----    | -----           | ----- |
| WO 9737970<br>19970401   | A1   | 19971016 | WO 1997-JP1122  |       |
| W: AU, CA, CN, CZ, HU, KR, MX, NO, NZ, RU, US<br>RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,<br>MC, NL, PT, SE |      |          |                 |       |
| CA 2251468<br>19970401   | AA   | 19971016 | CA 1997-2251468 |       |
| AU 9720446<br>19970401   | A1   | 19971029 | AU 1997-20446   |       |
| AU 708919  | B2   | 19990819 |                 |       |
| EP 916651<br>19970401  | A1   | 19990519 | EP 1997-908566  |       |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL,<br>SE, MC, PT,<br>IE, FI  |      |          |                 |       |
| CN 1219927<br>19970401   | A    | 19990616 | CN 1997-194978  |       |

JP 09323967      A2      19971216      JP 1997-85076  
 19970403  
 NO 9804633      A      19981203      NO 1998-4633  
 19981002  
 KR 2000005224      A      20000125      KR 1998-7911  
 19981002  
 US 6103907      A      20000815      US 1998-168973  
 19981005  
 PRIORITY APPLN. INFO.:      JP 1996-82803      A  
 19960404  
    WO 1997-JP1122      W  
 19970401  
 OTHER SOURCE(S):      MARPAT 127:307307  
 GI



AB Phenylalkylcarboxylic acid derivs: represented by general formula [I; R1 =  
 C1-6 linear or branched alkyl; R2 = C2-6 linear or branched  
 alkylene; R3 =  
 H, C1-6 linear or branched alkyl, C1-4 linear or branched  
 alkoxy, C1-4  
 linear or branched alkylthio, halo, NO2, di(C1-4 linear or  
 branched  
 alkyl)amino, (un)substituted C6-10 aryl or C7-12 aralkyl; X  
 =  
 (un)substituted C6-10 aryl, 5- to 10-membered mono- or  
 bicyclic arom.  
 heterocyclyl contg. 1-4 heteroatoms selected from O, S, and  
 N; Y = O, S,  
 (un)substituted NH; Z = single bond, C1-6 linear or  
 branched alkylene; W =  
 C1-6 linear or branched alkyl, C1-4 linear or branched  
 alkoxy, C1-4 linear

or branched alkylthio, NH<sub>2</sub>, mono- or di(C1-4 linear or branched

alkyl)amino, etc.] and pharmacol. acceptable salts and esters thereof,

useful as a remedy or preventive for hyperglycemia and the like, are

prepd. Thus, Et 2-ethoxy-3-(4-hydroxyphenyl)propionate was treated with

NaH in DMF and PhMe under stirring at room temp. for 30 min and condensed

with 4'-(2-pyridyl)acetophenone oxime

O-2-(methanesulfonyloxyethyl) ether

under stirring at 80.degree. for 3 h, followed by sapon.

with 1N aq. NaOH

and EtOH and acidification with 1N aq. HCl to give the title compd. (II; R

= EtO). II (R = EtO) and II (R = EtNH) at 1 mg/kg p.o. lowered blood

sugar by 21.9 and 26.9%, resp., in hyperglycemic mice. A capsule, a

tablet, and a granule formulation contg. II (R = EtO) were prepd.

IT **197299-20-0P**

RL: BAC (Biological activity or effector, except adverse);

SPN (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(prepn. of phenylalkylcarboxylic acid derivs. lowering blood sugar

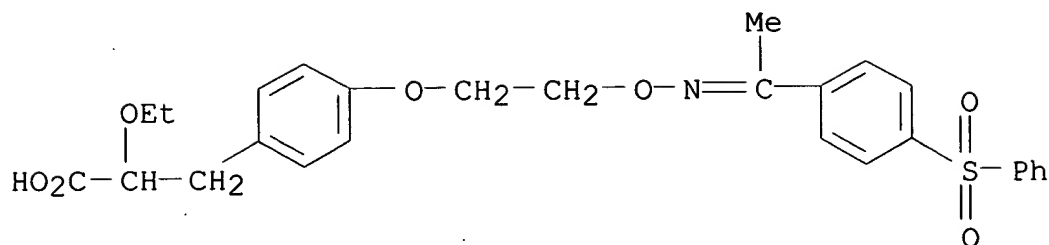
level)

RN 197299-20-0 ZCAPLUS

CN Benzenepropanoic acid, .alpha.-ethoxy-4-[2-[[[1-[4-(phenylsulfonyl)phenyl]ethylidene]amino]oxy]ethoxy]- (9CI)

(CA INDEX

NAME)



IT 197299-20-0P

RL: BAC (Biological activity or effector, except adverse);  
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of phenylalkylcarboxylic acid derivs. lowering blood sugar level)

L21 ANSWER 9 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:650975 ZCAPLUS

DOCUMENT NUMBER: 127:339241

TITLE: Photopolymerizing composition showing high sensitivity

toward visible rays

INVENTOR(S): Okamoto, Yasuo; Sorori, Tadahiro

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 51 pp.

CODEN: JKXXAF

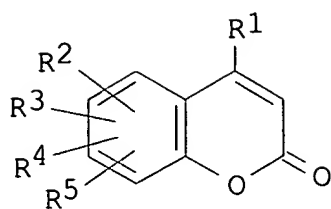
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

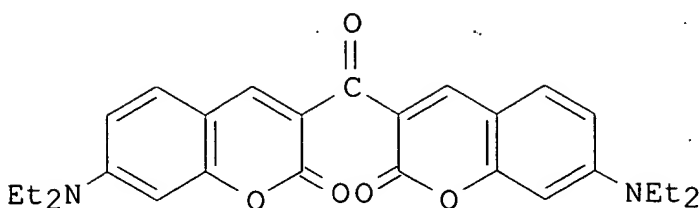
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

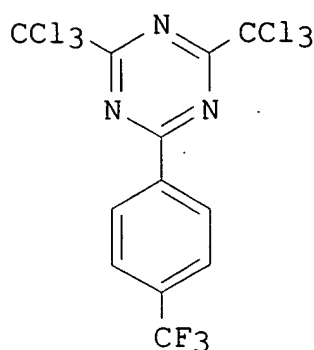
| PATENT NO.       | KIND | DATE              | APPLICATION NO. | DATE |
|------------------|------|-------------------|-----------------|------|
| JP 09258443      | A2   | 19971003          | JP 1996-61538   |      |
| 19960318         |      |                   |                 |      |
| OTHER SOURCE(S): |      | MARPAT 127:339241 |                 |      |
| GI               |      |                   |                 |      |



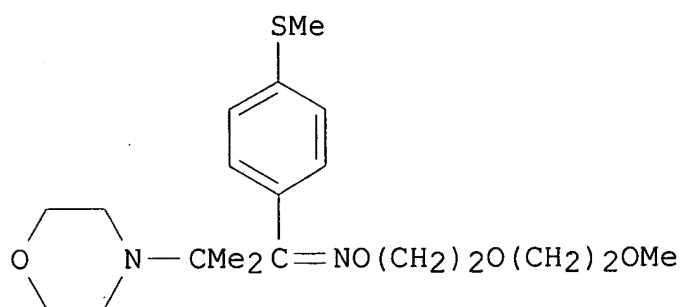
I



II



III



IV

AB The title compn. contains (a) an addn.-polymerizable compd. having

.gtoreq.1 ethylenic unsatd. double bond, (b) a sensitizing dye I. [R1 = H,

C1-4 (substituted) alkyl, C6-12 (substituted) aryl, R6CO; R6 = alkoxy,

cycloalkoxy, OH, aryloxy, alkenyloxy, aralkyloxy, alkoxycarbonylalkoxy,

alkylcarbonylalkoxy, R7[O(CH2)m]nO, NR9R10, NHR8; R7-10 = H, alkyl,

hydroxyalkyl, hydroxyalkoxyalkyl, alkoxyalkyl, cycloalkyl; m, n = 1-5;

R2-5 = H, C1-6 (substituted) alkoxy, C1-6 (substituted) alkenyloxy, C1-6

(substituted) alkylthio, C1-4 dialkylamino, OH, acyloxy, halo, nitro, 5 or

6-membered heterocycle, R2-5 may link to form 5 or 6-membered condensed

rings or condensed ring system; Q = CN, heterocycle, ZR11; R11 = C1-10

(substituted) alkyl, alkenyl or alkoxy, C6-12 (substituted) aryl, C6-12

(substituted) aryloxy, (substituted) 5 to 15 membered heterocycle, OH,

acyl; Z = carbonyl, sulfonyl, sulfinyl, arylenedicarbonyl, (CH:CH)<sub>n</sub>; n = 1

or 2], (c) a photoradical-generating agent, and (d) an oxym ether compd.

R12R13C:NOR14 (R12-14 = monovalent org. group). The compn. shows high

sensitivity toward visible rays and Ar and YAG-SHG laser beams and

improved storage stability. Thus, a photosensitive compn. comprised

pentaerythritol tetraacrylate, II, III, and IV.

IT **181529-31-7**

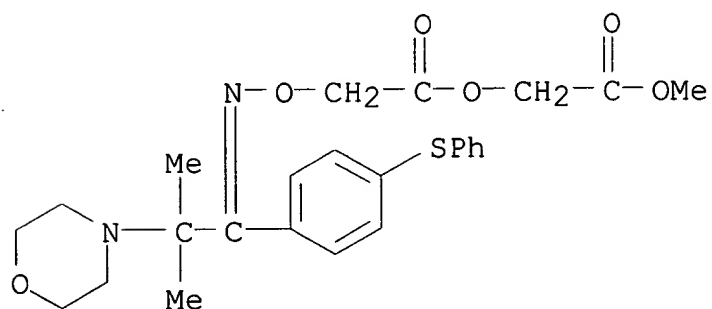
RL: DEV (Device component use); MOA (Modifier or additive use); USES

(Uses)

(photoimaging compn. contg. ethylenic compd., sensitizing dye, radical generator, and oxym ether compd.)

RN 181529-31-7 ZCAPLUS

CN Acetic acid, [[[2-methyl-2-(4-morpholinyl)-1-[4-(phenylthio)phenyl]propylidene]amino]oxy]-, 2-methoxy-2-oxoethyl ester  
(9CI) (CA INDEX NAME)



IT **181529-31-7**

RL: DEV (Device component use); MOA (Modifier or additive use); USES

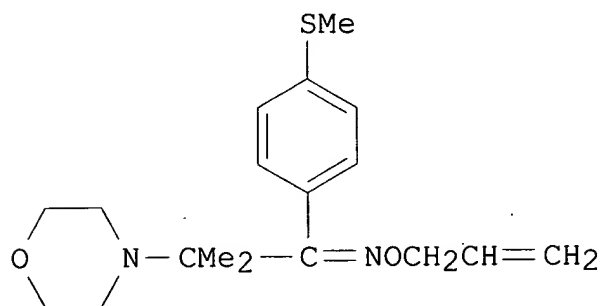
(Uses)

(photoimaging compn. contg. ethylenic compd., sensitizing dye, radical

generator, and oxym ether compd.)

L21 ANSWER 10 OF 14 ZCAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1997:324132 ZCAPLUS  
 DOCUMENT NUMBER: 126:299707  
 TITLE: Waterless presensitized lithographic  
 plate with high  
 photosensitivity  
 INVENTOR(S): Hirano, Tsumoru; Kunida, Kazuto  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE  |
|-------------|------|----------|-----------------|-------|
| -----       | ---- | -----    | -----           | ----- |
| JP 09062001 | A2   | 19970307 | JP 1995-214870  |       |
| 19950823    |      |          |                 |       |
| GI          |      |          |                 |       |



AB The title lithog. plate comprises a support laminated successively with a primer layer, a photopolyimg. layer contg. a compd. having photopolymerizable ethylenic unsatd. groups and an oxime ether compd., and a silicone rubber layer. The lithog. plate shows high sensitivity toward active rays in the region from UV ray to visible light. Thus, a



presensitized lithog. plate was prepd. by using a photosensitive layer

contg. Sartomer 9035 (acrylate monomer), xylylenediamine-glycidyl methacrylate adduct, I, and polyurethane resin.

IT **181529-31-7**

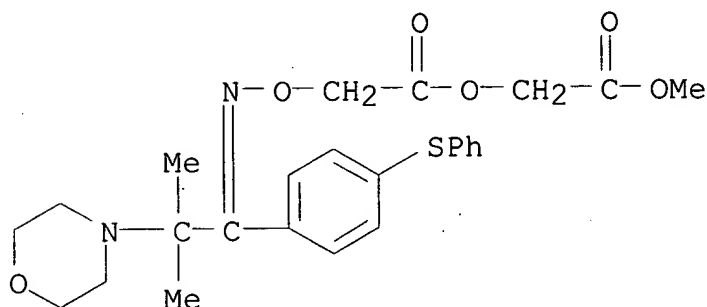
RL: CAT (Catalyst use); USES (Uses)

(waterless presensitized lithog. plates contg. oxime ether compd. as

photopolymn. initiator)

RN 181529-31-7 ZCAPLUS

CN Acetic acid, [[[2-methyl-2-(4-morpholinyl)-1-[4-(phenylthio)phenyl]propylidene]amino]oxy]-, 2-methoxy-2-oxoethyl ester  
(9CI) (CA INDEX NAME)



IT **181529-31-7**

RL: CAT (Catalyst use); USES (Uses)

(waterless presensitized lithog. plates contg. oxime ether compd. as

photopolymn. initiator)

L21 ANSWER 11 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:593685 ZCAPLUS

DOCUMENT NUMBER: 125:234439

TITLE: Photopolymerizable composition for printing plate

INVENTOR(S):

preparation

PATENT ASSIGNEE(S):

Kunita, Kazuto; Kondo, Syunichi  
Fuji Photo Film Co., Ltd., Japan

SOURCE:

Eur. Pat. Appl., 94 pp.

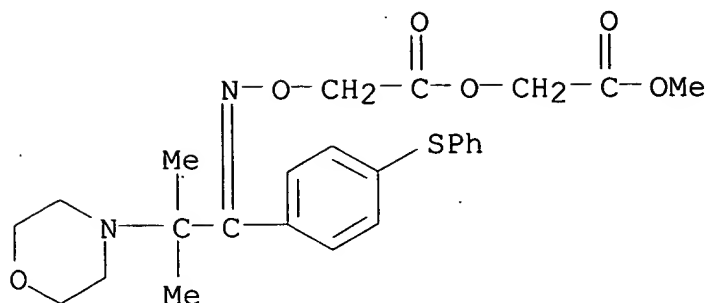
CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND  | DATE     | APPLICATION NO. | DATE  |
|------------------------|---|----------|-----------------|-------|
| -----                  | ----  | -----    | -----           | ----- |
| EP 724197              | A1  | 19960731 | EP 1996-101075  |       |
| 19960125               |   |          |                 |       |
| EP 724197              | B1  | 19991013 |                 |       |
| R: DE, GB              |   |          |                 |       |
| JP 08202035            | A2  | 19960809 | JP 1995-13108   |       |
| 19950130               |   |          |                 |       |
| US 5703140             | A   | 19971230 | US 1996-589992  |       |
| 19960123               |   |          |                 |       |
| PRIORITY APPLN. INFO.: |   |          | JP 1995-13108   |       |
| 19950130               |   |          |                 |       |
| AB                     | A photopolymerizable compn. for printing plate prepn. is disclosed,<br>comprising at least (i) a compd. having an addn.-polymerizable ethylenically unsatd. bond and (ii) an oxime ether compd.   |          |                 |       |
| The                    | The photopolymerizable compn. of the present invention shows high sensitivity to active light rays over a wide range of from UV ray to visible light and at the same time, the photosensitive material using the photopolymerizable compn. of the present invention is improved in the storage stability. |          |                 |       |
|                        | Further, the development ppt. generated from the developer waste after development of the photosensitive material is restrained.  |          |                 |       |
| IT                     | <b>181529-31-7</b>  |          |                 |       |
|                        | RL: TEM (Technical or engineered material use); USES (Uses) (printing plate prepn. using photopolymerizable compns. contg.)   |          |                 |       |
| RN                     | 181529-31-7 ZCAPLUS   |          |                 |       |
| CN                     | Acetic acid, [[[2-methyl-2-(4-morpholinyl)-1-[4-(phenylthio)phenyl]propylidene]amino]oxy]-, 2-methoxy-2-oxoethyl ester (9CI) (CA INDEX NAME)  |          |                 |       |

IT **181529-31-7**

RL: TEM (Technical or engineered material use); USES (Uses)  
(printing plate prepn. using photopolymerizable compns.

contg.)

L21 ANSWER 12 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:244673 ZCAPLUS

DOCUMENT NUMBER: 120:244673

TITLE: Preparation of pyran containing  
hydroxylamine

derivatives as 5-lipoxygenase inhibitors

INVENTOR(S): Ple, Patrick

PATENT ASSIGNEE(S): Zeneca Ltd., UK

SOURCE: Eur. Pat. Appl., 23 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

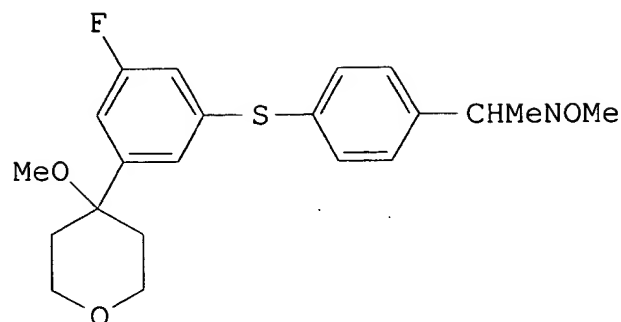
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE              | APPLICATION NO. | DATE |
|---|------|-------------------|-----------------|------|
| EP 555067   | A1   | 19930811          | EP 1993-300781  |      |
| 19930203  |      |                   |                 |      |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE |      |                   |                 |      |
| JP 06009527   | A2   | 19940118          | JP 1993-17348   |      |
| 19930204  |      |                   |                 |      |
| US 5453439  | A    | 19950926          | US 1993-14520   |      |
| 19930208  |      |                   |                 |      |
| PRIORITY APPLN. INFO.:  |      |                   | EP 1992-400320  |      |
| 19920207  |      |                   |                 |      |
| OTHER SOURCE(S):  |      | MARPAT 120:244673 |                 |      |

GI



II

AB Title compds. R5ONR4CR6R7Ar1A1X1Ar2C(OR1)R2R3 (I; R1 = C1-4 alkyl, C3-4

alkenyl, C3-4 alkynyl; R2R3 = A2X2A3 which with the C to which A2 and A3

are attached define a (substituted) 5-6-membered ring, wherein A2, A3 =

C1-3 alkylene and X2 = O, S, SO, SO2, NH, etc.; R6 = H, C1-4 alkyl,

(substituted) Ph -Ph(C1-4 alkyl), etc.; R7 = H, C1-4 alkyl; Ar1 =

(substituted) phenylene, etc.; A1 = bond, C1-4 alkylene; X1 = O, S, SO,

SO2; Ar2 = phenylene, pyridinediyl, pyrimidinediyl, thiophenediyl,

furandiyl, etc. all of which may be substituted; R4 = H, H2NCO, C1-4

alkyl, Bz, etc.; R5 = H, C1-4 alkyl, C3-4 alkenyl, C3-4 alkynyl,

cyano-C1-4-alkyl, etc.) and a salt thereof, are prepd.

(E)-4'-[5-fluoro-3-(4-methoxytetrahydropyran-4-yl)phenylthio]acetophenone

oxime O-Me ether was reduce to give the title compd. II.

The effect of

inhibition was demonstrated by II which had an IC50 of 0.04 .mu.M against

LTB4 in an in vitro test and an oral ED50 of 0.5 mg/kg vs LTB4.

Pharmaceutical compns. comprising I are given. Such compns. can include a

cyclooxygenase inhibitory nonsteroidal antiinflammatory agent.

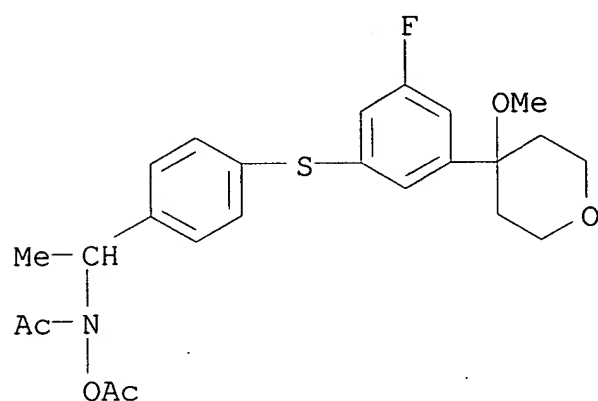
IT **151358-54-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as 5-lipoxygenase inhibitor)

RN 151358-54-2 ZCAPLUS

CN Acetamide,

N-(acetyloxy)-N-[1-[4-[[3-fluoro-5-(tetrahydro-4-methoxy-2H-pyran-4-yl)phenyl]thio]phenyl]ethyl]- (9CI) (CA INDEX NAME)



IT **151358-54-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as 5-lipoxygenase inhibitor)

L21 ANSWER 13 OF 14 ZCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:403075 ZCAPLUS

DOCUMENT NUMBER: 119:3075

TITLE: Herbicides containing diphenyl  
thioethers

INVENTOR(S): Go, Atsushi; Takahashi, Takako; Endo,  
Keiji;

PATENT ASSIGNEE(S): Kawaguchi, Shinji  
Mitsubishi Petrochemical Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF

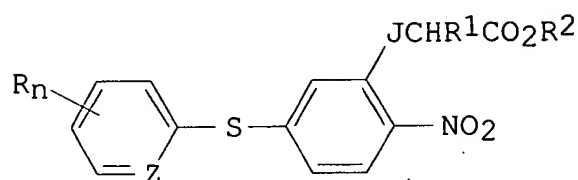
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.       | KIND | DATE            | APPLICATION NO. | DATE |
|------------------|------|-----------------|-----------------|------|
| JP 05025120      | A2   | 19930202        | JP 1991-172762  |      |
| 19910712         |      |                 |                 |      |
| OTHER SOURCE(S): |      | MARPAT 119:3075 |                 |      |
| GI               |      |                 |                 |      |



I

AB Herbicides contain di-Ph thioethers I [R = halo, haloalkyl; R1 = H, lower alkyl; R2 = H, lower alkyl, alkenyl, or alkynyl, ion of water-sol. salt; J

= C(OMe):NO, O; Z = CX, N; X = H, halo; n = 0-3] as active ingredients.

2-Chloro-4-trifluoromethylbenzenethiol (prepn. given) in DMSO was treated

with K2CO3 and Me O-methoxycarbonylmethyl 3-fluoro-5-nitrobenzohydroximate

at 70.degree. for 2 h to give 54% syn-I [Rn = 2-Cl-4-CF3, R2 = H, R3 = Me,

J = C(OMe):NO, Z = CH], which (at 30 g/ha) showed 90-100% control of

Amaranthus retroflexus, Abutilon avicennae, Pharbitis nil, and Xanthium

strumarium with no damage on corn, wheat, rice, and soybean, vs. 0-50%

control, for a conventional di-Ph thio ether herbicide.

IT 148000-17-3 148000-18-4 148000-19-5

148000-20-8 148000-21-9 148000-22-0

148000-23-1 148000-24-2 148000-25-3

148000-27-5 148027-78-5

RL: AGR (Agricultural use); BAC (Biological activity or effector, except

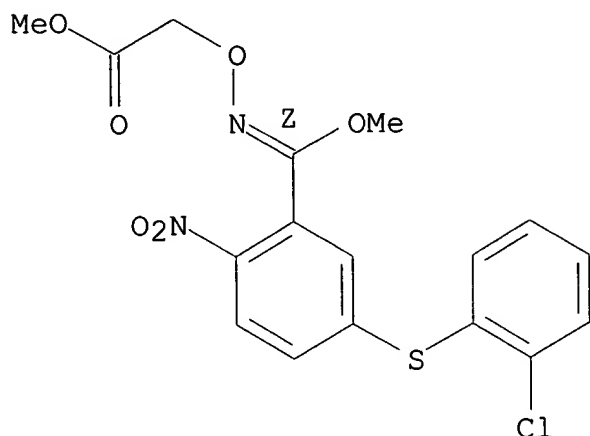
adverse); BIOL (Biological study); USES (Uses)

(herbicides contg., prepn. of)

RN 148000-17-3 ZCAPLUS

CN Acetic acid,  
[[[5-[(2-chlorophenyl)thio]-2-nitrophenyl]methoxymethylene]a  
mino]oxy]-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

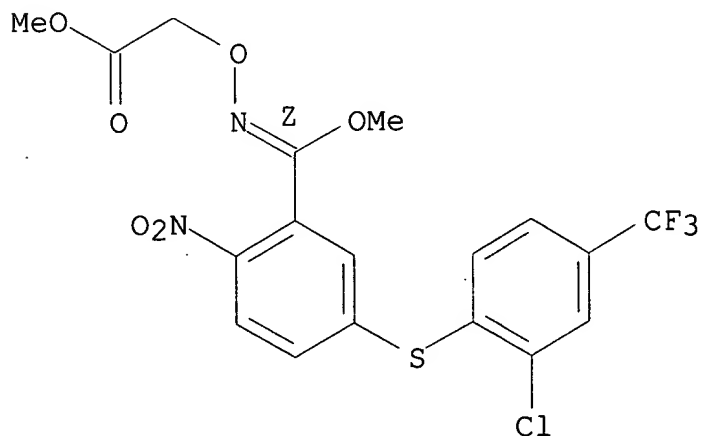
Double bond geometry as shown.



RN 148000-18-4 ZCAPLUS

CN Acetic acid,  
[[[5-[[2-chloro-4-(trifluoromethyl)phenyl]thio]-2-  
nitrophenyl]methoxymethylene]amino]oxy]-, methyl ester,  
(Z)- (9CI) (CA  
INDEX NAME)

Double bond geometry as shown.

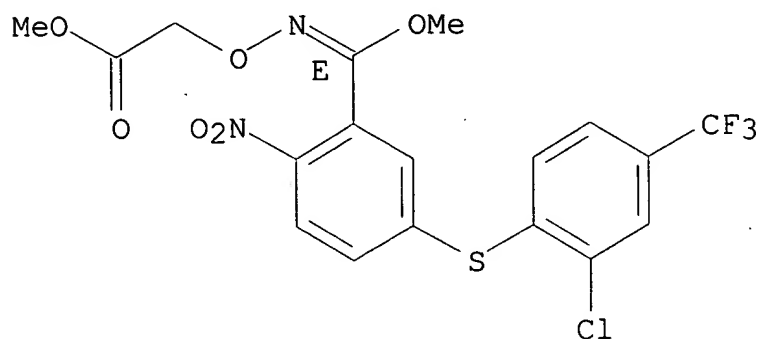


RN 148000-19-5 ZCAPLUS

CN Acetic acid,

[[[5-[[2-chloro-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, methyl ester,  
(E)- (9CI) (CA  
INDEX NAME)

Double bond geometry as shown.

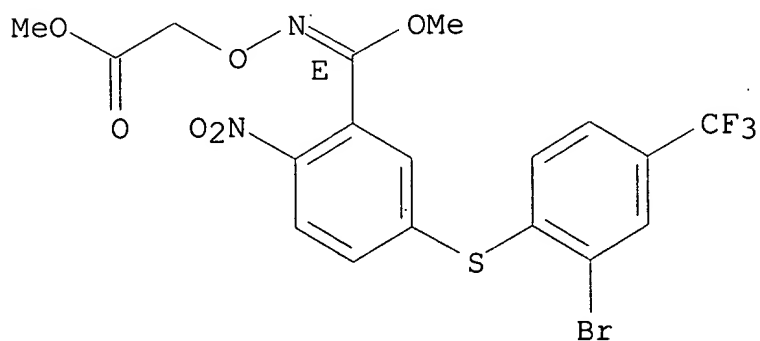


RN 148000-20-8 ZCAPLUS

CN Acetic acid,

[[[5-[[2-bromo-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, methyl ester,  
(E)- (9CI) (CA  
INDEX NAME)

Double bond geometry as shown.



RN 148000-21-9 ZCAPLUS

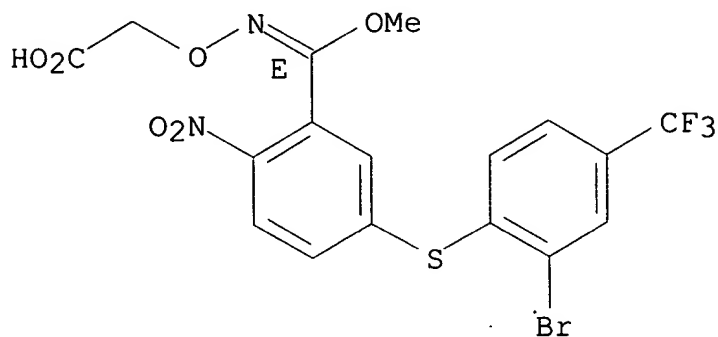
CN Acetic acid,

[[[5-[[2-bromo-4-(trifluoromethyl)phenyl]thio]-2-



nitrophenyl]methoxymethylene]amino]oxy]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

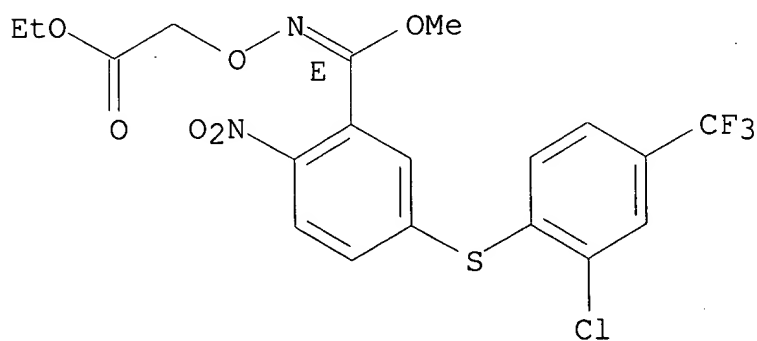


RN 148000-22-0 ZCAPLUS

CN Acetic acid,

[[[5-[[2-chloro-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

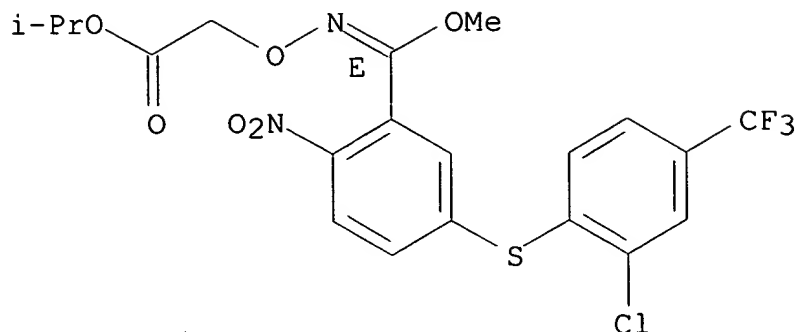


RN 148000-23-1 ZCAPLUS

CN Acetic acid,

[[[5-[[2-chloro-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, 1-methylethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

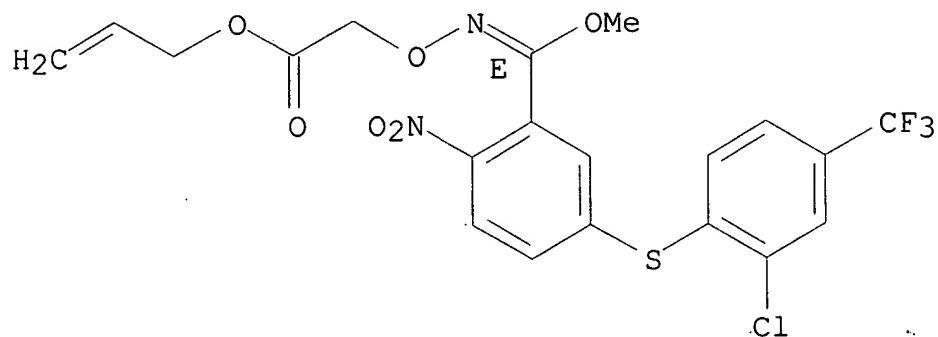


RN 148000-24-2 ZCAPLUS

CN Acetic acid,

[[[5-[[2-chloro-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, 2-propenyl ester,  
(E)- (9CI)  
(CA INDEX NAME)

Double bond geometry as shown.

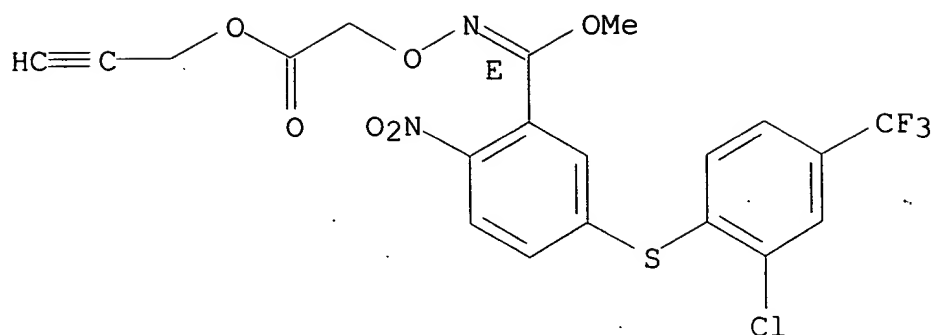


RN 148000-25-3 ZCAPLUS

CN Acetic acid,

[[[5-[[2-chloro-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, 2-propynyl ester,  
(E)- (9CI)  
(CA INDEX NAME)

Double bond geometry as shown.

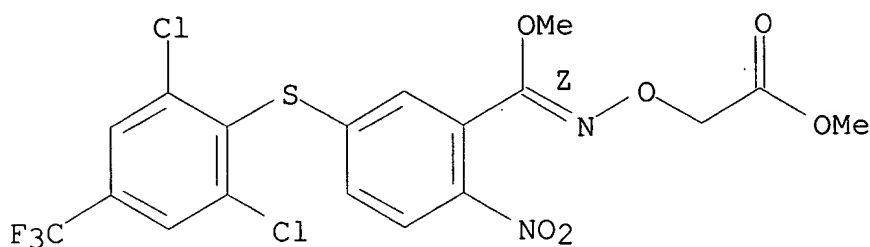


RN 148000-27-5 ZCAPLUS

CN Acetic acid,

[[[5-[[2,6-dichloro-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, methyl ester,  
(Z)- (9CI) (CA  
INDEX NAME)

Double bond geometry as shown.

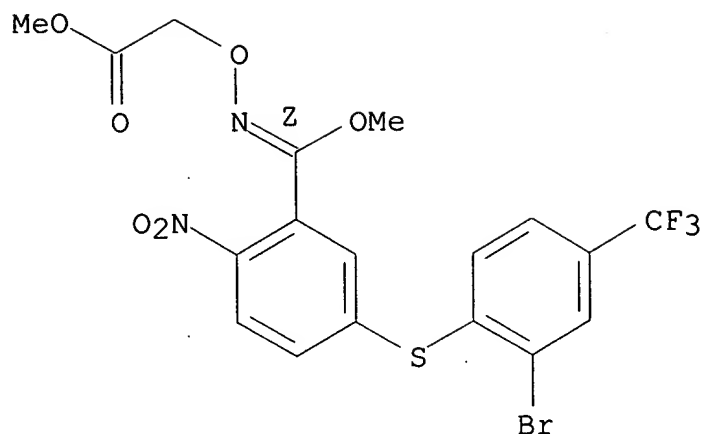


RN 148027-78-5 ZCAPLUS

CN Acetic acid,

[[[5-[[2-bromo-4-(trifluoromethyl)phenyl]thio]-2-nitrophenyl]methoxymethylene]amino]oxy]-, methyl ester,  
(Z)- (9CI) (CA  
INDEX NAME)

Double bond geometry as shown.



IT 148000-17-3 148000-18-4 148000-19-5  
148000-20-8 148000-21-9 148000-22-0  
148000-23-1 148000-24-2 148000-25-3  
148000-27-5 148027-78-5

RL: AGR (Agricultural use); BAC (Biological activity or  
effector, except  
adverse); BIOL (Biological study); USES (Uses)  
(herbicides contg., prepn. of)

L21 ANSWER 14 OF 14 ZCAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1968:419795 ZCAPLUS  
DOCUMENT NUMBER: 69:19795  
TITLE: Heat-resistant polymers  
INVENTOR(S): Miyake, Akihisa; Yoda, Naoya; Baba,  
Yasuo  
PATENT ASSIGNEE(S): Toyo Rayon Co., Ltd.  
SOURCE: Jpn. Tokkyo Koho, 4 pp.  
CODEN: JAXXAD  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|------|
| JP 43006076 | B4   | 19680306 | JP              |      |
| 19650201    |      |          |                 |      |

GI For diagram(s), see printed CA Issue.

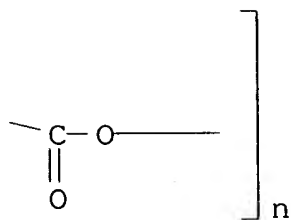


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03/20/2002

PAGE 1-B

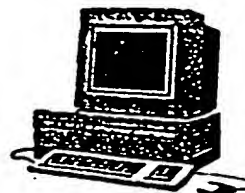


IT **32010-22-3P**  
RL: PREP (Preparation)  
(prepn. of)

# EIC1700

## Search Results

### Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the EIC searcher* who conducted the search *or* contact:

Kathleen Fuller, Team Leader, 308-4290, CP3/4 3D62

*Search - John Cane.*

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### Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example:

➤ Relevant prior art found, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art not found:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

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Drop off completed forms in CP3/4 - 3D62 .